Pioneer

Service Manual

TOYOTA

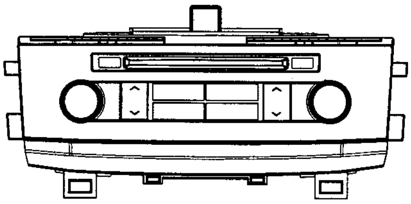
ORDER NO.
CRT4002

LEXUS LX
AUDIO SYSTEM
HEAD UNIT

VEHICLE	DESTINATION	PRODUCED AFTER	OEM PARTS No.	ID No.	PIONEER MODEL No.
LX	Russian	November 2007	86120-60A80	P8607	DVZ-MG8977ZT/RE DVZ-MG8977ZT-91/RE

Manufactured for TOYOTA
by PIONEER CORPORATION

PUB.NO.CRT4002



DVZ-MG8977ZT/RE : ID No. P8607

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3150	CRT3495	MG4	DVD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly

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Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
For details,

For details, refer to "Important Check Points for Good Servicing".

SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING!

The AEL (accessible emission level)of the laser power output is less than CLASS 1 but the laser component is capable of emitting radiation exceeding the limit for CLASS 1.
A specially instructed person should do servicing operation of the apparatus.

Laser diode characteristics

Wave length:
DVD:640 nm to 660 nm
CD:770 nm to 810 nm
DVD : 2.48 mW(Emitting period :9 sec.)
CD : 705 μW(Emitting period : unlimited)

Additional Laser Caution

Transistors Q1101 and Q1102 in PCB drive the laser diodes for DVD and CD respectively. When Q1101 or Q1102 is shorted between their terminals, the laser diodes for DVD or CD will radiate beam. If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replaced only with the same or equivalent type recommended by the manufacture.
Discord used batteries according to the manufacture's instructions.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 SERVICE PRECAUTIONS

● Service Precautions ❗

1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Make sure to install grille when charging power.
   (* If you fail to do so, the main body will identify it as " a model without display " and the button will not function.)
3. The test mode is not available on this unit.
   To enter the test mode, load the mechanism to other unit designated for test mode and then try the mode by referring to its service manual.
4. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
5. Take care not to engage code when wire-processing the digital connecting code of DVD mechanism during assembly.
   (* For service use, this specification has a long code for detachable MG4-mechanism part enabling resin parts wire-processed between the Holder.)
6. Do neither ACC nor +B in OFF immediately simultaneously after exhausting DISC.
   It is a structure that PICK UP enters the SHIP mode by the automatic operation. However, operation stops and there is a possibility of becoming outside the SHIP mode.

● DVD and CD section precaution

1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to the service manual of CX-3150 (MG4 mech.), CRT3495.
3. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

Supplementary model is identical to the original except for the addition of following items.

*:Non spare part

Description	-91
Cover	CEG1045 (x 2)
Cover	CEG1324
Carton	CHG4861
Contain Box	CHL4861 (x 1/2)
Air Cap	* CHW1945
Air Cap	* CHW1948

1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40° C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373° C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

2. SPECIFICATIONS

2.1 SPECIFICATIONS

General

Power source	13.2 V DC(10.5 V to 16.0 V allowable)
Grounding system	Negative type
Backup current	0.15 mA or less

DVD player

System	DVD video, DVD audio, Video CD, Compact disc audio system
Usable discs	DVD video, DVD audio, Video CD and Compact disc
Region number	6

Video

Video S/N	50 dB or more

Audio

Distortion	0.2 % or less
S/N	80 dB or more
Separation	65 dB or more
Stereo balance	±2 dB with in
Dynamic range	80 dB or more

FM tuner

Frequency	87.75 MHz to 107.9 MHz
S/N	46 dB or more
Distortion	1.5 % or less
Image interference	35 dB or more
IF interference	80 dB or more

AM tuner

Frequency	530 kHz to 1 710 kHz
S/N	42 dB or more
Distortion	1.5 % or less
Image interference	45 dB or more
IF interference	55 dB or more

2.2 DISC/CONTENT FORMAT

DVD AUDIO DVD AUDIO DVD VIDEO DVD VIDEO

DVD is a trademark of DVD Format/Logo Licensing Corporation.

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

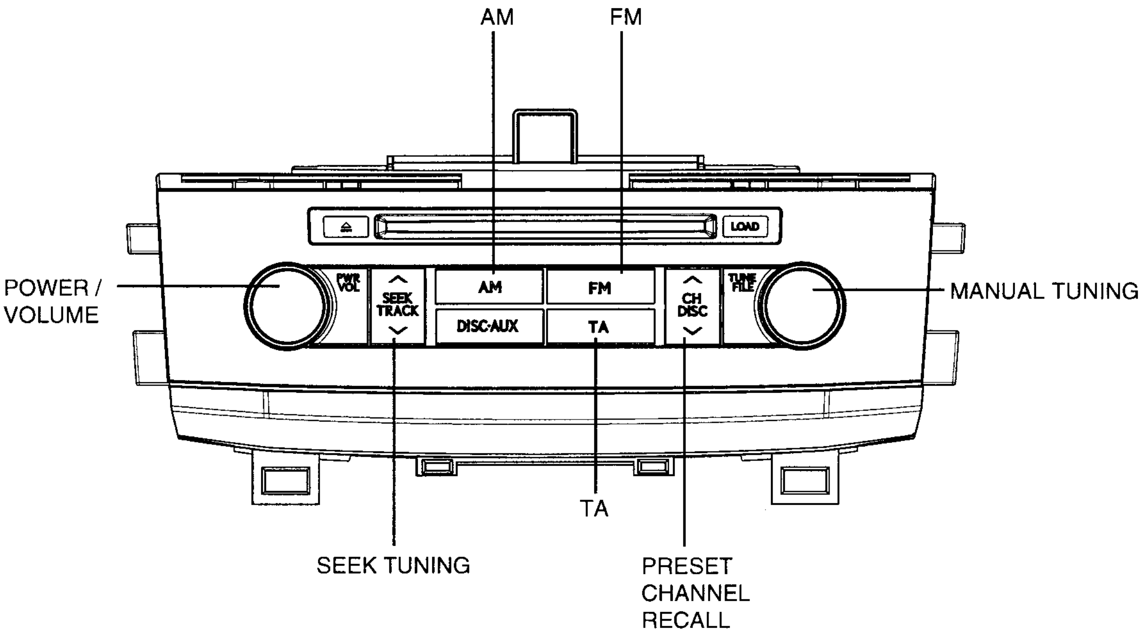
COMPACT disc DIGITAL AUDIO TEXT

dts 2.0 Channel

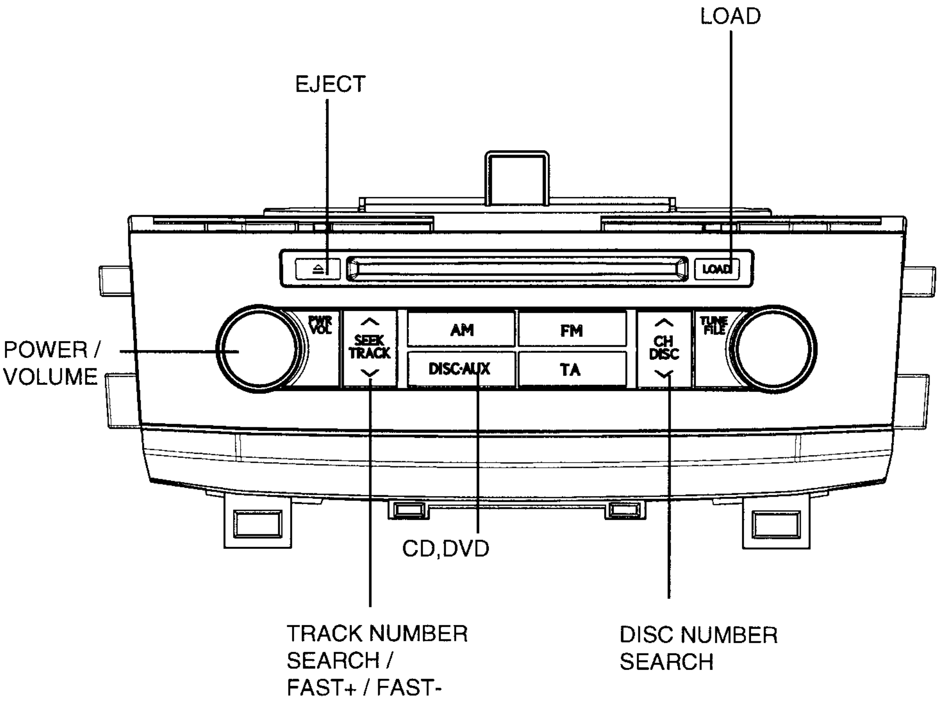
Plays Windows Media™

2.3 PANEL FACILITIES

● Radio


AM
FM
POWER / VOLUME
MANUAL TUNING
PWR VOL
SEEK TRACK
AM
FM
DISC·AUX
TA
CH DISC
TUNE FILE
LOAD
TA
SEEK TUNING
PRESET CHANNEL RECALL

● CD / DVD


LOAD
EJECT
POWER / VOLUME
PWR VOL
SEEK TRACK
AM
FM
DISC·AUX
TA
CH DISC
TUNE FILE
CD,DVD
TRACK NUMBER SEARCH / FAST+ / FAST-
DISC NUMBER SEARCH

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

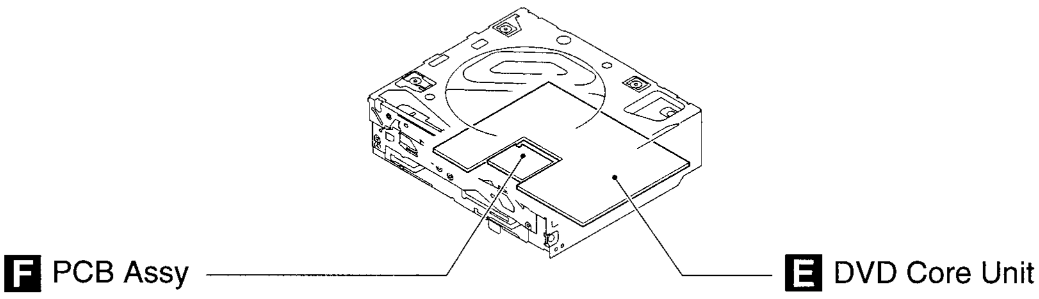
To keep the product quality after servicing, please confirm following check points.

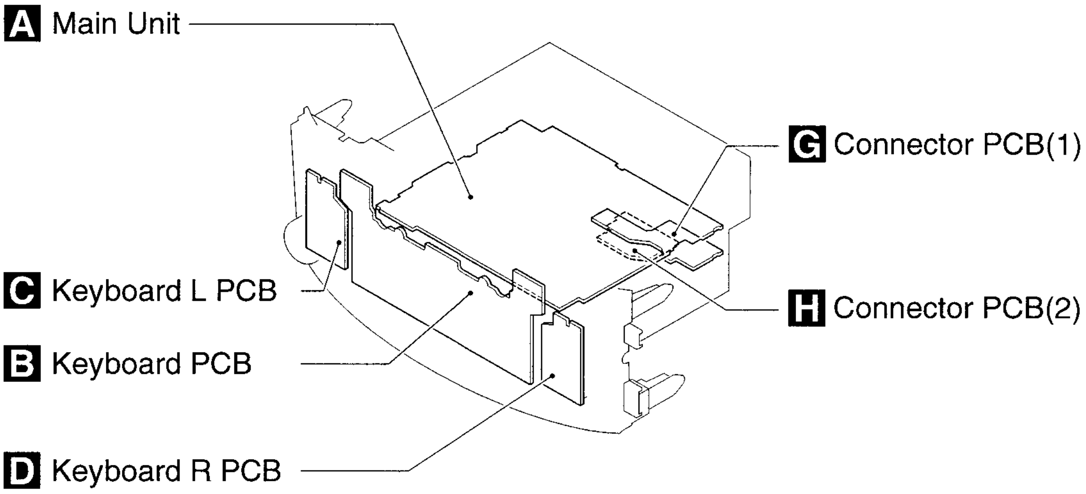
No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved. If the customer complain occurs with the specific media use it for the operation check.	The customer complain must not be reappeared. Display, video, audio and operations must be normal.
2	DVD	Measure playback error rates at the innermost and outermost tracks by using the test mode with the following disc. DVD test disc (GGV1025)	Deterioration of mecha-drive can be checked. The error rates must be less than 2.5e-4.
3	DVD	Play back a DVD. (Menu operation; Title/chapter search)	Display, video, audio and operations must be normal.
4	CD	Play back a CD. (Track search)	Display, audio and operations must be normal.
5	FM/AM tuner	Check FM/AM tuner action. (Seek, Preset) Switch band to check both FM and AM.	Display, audio and operations must be normal.
6		Check whether no disc is inside the product.	The media used for the operating check must be ejected.
7		Appearance check	No scratches or dirt on its appearance after receiving it for service.

For check items concerning image and voice, please refer to the followings:

Check items concerning image	**Check items concerning voice**
Block-noise	Distortion
Crosscut noise	Noise
Dot noise	Low volume
Distorted image (Image skip)	High volume
Low brightness	Changes in level
Too bright	Pause of sound
Color fading	
Partial discoloration	

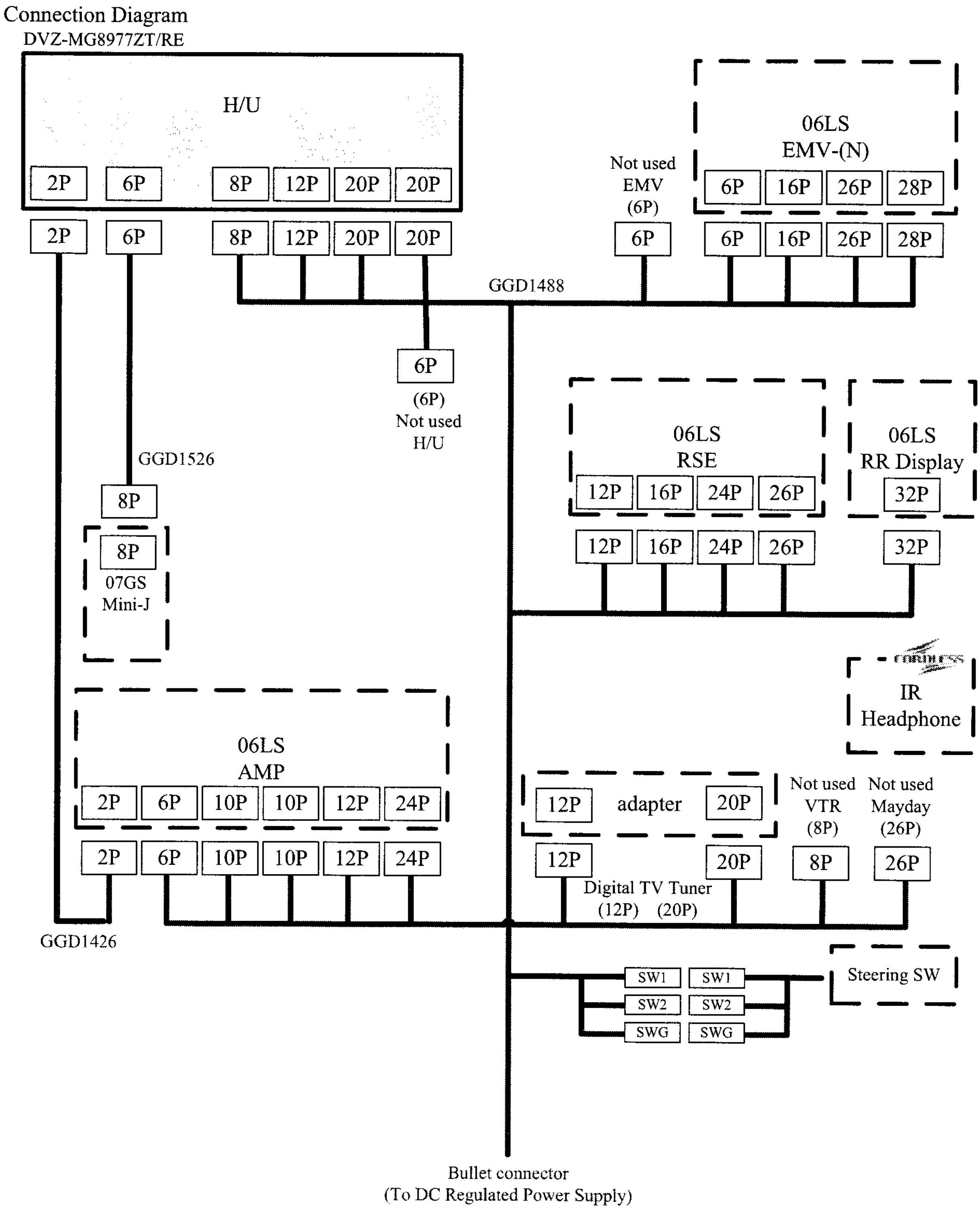
3.2 PCB LOCATIONS

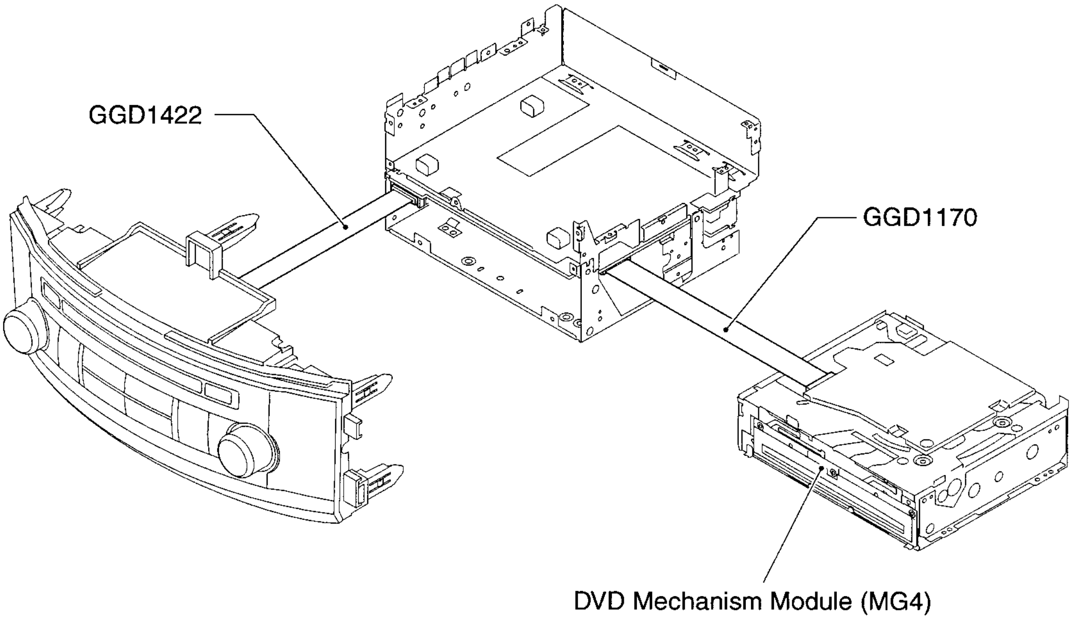

F PCB Assy
E DVD Core Unit


A Main Unit
G Connector PCB(1)
C Keyboard L PCB
H Connector PCB(2)
B Keyboard PCB
D Keyboard R PCB

Unit Number	:	CWN2543
Unit Name	:	Main Unit
Unit Number	:	
Unit Name	:	Keyboard Unit
Unit Number	:	CWN2568
Unit Name	:	Connector Unit
Unit Number	:	CWX3543
Unit Name	:	DVD Core Unit
Unit Number	:	CWX2986
Unit Name	:	PCB Assy

3.3 JIG CONNECTION DIAGRAM


Connection Diagram
DVZ-MG8977ZT/RE
H/U
2P
6P
8P
12P
20P
20P
Not used
EMV
(6P)
06LS
EMV-(N)
6P
16P
26P
28P
GGD1488
6P
(6P)
Not used
H/U
06LS
RSE
12P
16P
24P
26P
06LS
RR Display
32P
GGD1526
8P
8P
07GS
Mini-J
CORDLESS
IR
Headphone
06LS
AMP
2P
6P
10P
10P
12P
24P
12P
adapter
20P
Not used
VTR
(8P)
Not used
Mayday
(26P)
Digital TV Tuner
(12P) (20P)
GGD1426
SW1
SW2
SWG
Steering SW
Bullet connector
(To DC Regulated Power Supply)


GGD1422
GGD1170
DVD Mechanism Module (MG4)

● Jigs List

Name	Jig No.	Remarks
Assembly jig	GGF1538	Assembly jig for MG4 (3pcs)
Extension Cord	GGD1170	40Pin (For MG4 mecha.)
Extension Cord	GGD1422	18Pin (For Panel Assy)
System Harness	GGD1488	For system confirmation
System Cable	GGD1526	For system confirmation
Syringe(w/o needle)	GGK1004	For front panel
Needle	GGL1011	For front panel
Sample of Grease amount	GGF1561	For front panel
System Cable	GGD1426	For system confirmation
TEST DISC	GGV1025	DVD
TEST DISC	STD-905	CD-DA

● Grease List

Name	Jig No.	Remarks
Grease	GEM1024	Mechanism Module Unit(SERVICE)
Grease	GEM1048	Front Panel

Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
DVD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

Portions to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

● Internal multi-DVD shipping position mode setting

Auto change to the SHIP MODE after ALL DISC EJECT.

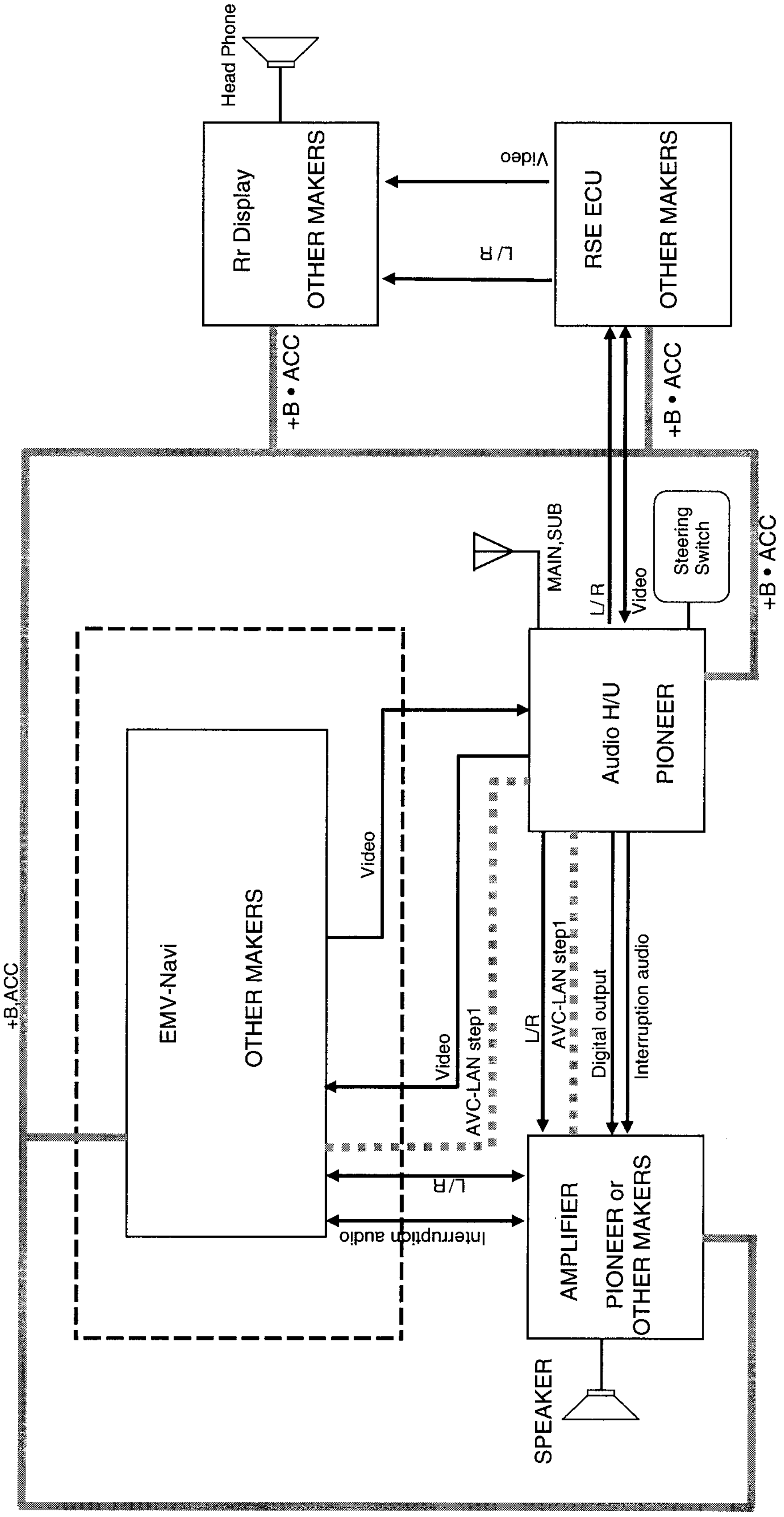
NOTE :
Do not switch off ACC and +B at the same time immediately after ejecting DISC.
(Switch off +B at 5 seconds after the shutter door is closed.)

*PICK UP is made to be automatically shifted to SHIP MODE. However, the above action may discontinue operation, disabling a shift to SHIP MODE.

3.4 SYSTEM BLOCK DIAGRAM

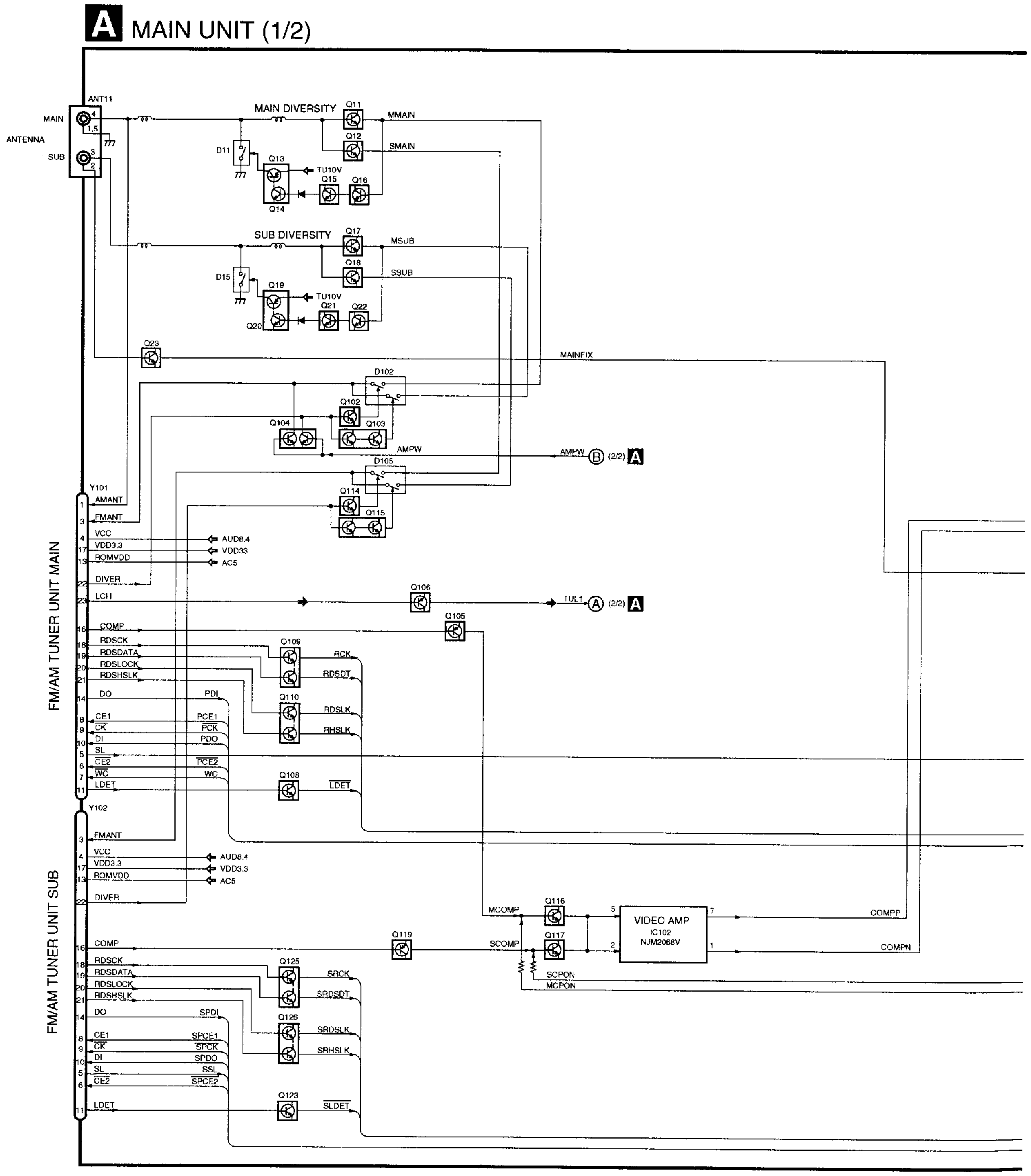
● System

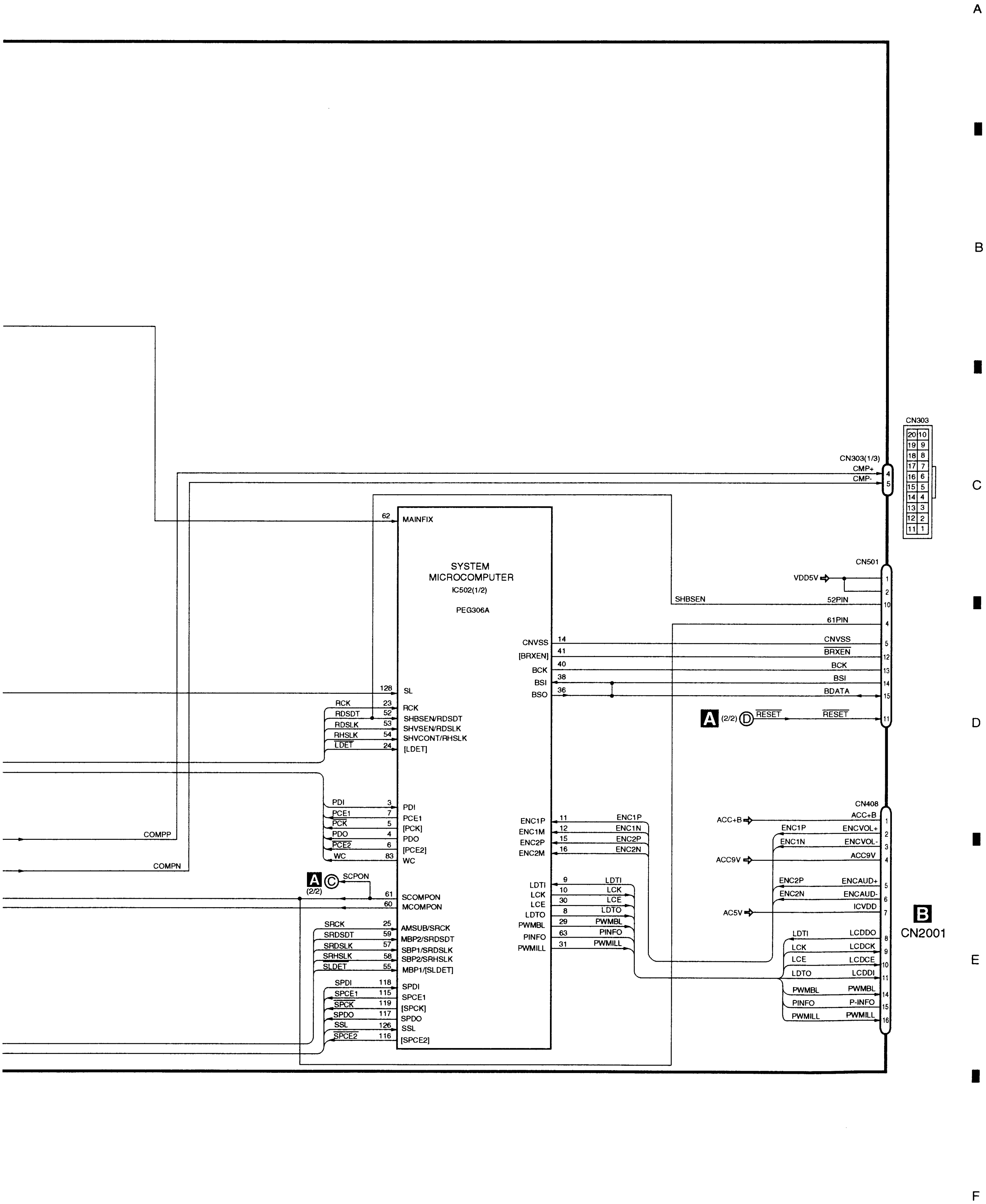
H/U + AMP + EMV-N + RSE ECU + Rr Display


Head Phone
Rr Display
OTHER MAKERS
RSE ECU
OTHER MAKERS
Video
L/R
+B • ACC
+B • ACC
+B • ACC
+B,ACC
MAIN,SUB
L/R
Video
Steering Switch
Audio H/U
PIONEER
EMV-Navi
OTHER MAKERS
Video
Video
AVC-LAN step1
L/R
AVC-LAN step1
Digital output
Interruption audio
L/R
Interruption audio
AMPLIFIER
PIONEER or OTHER MAKERS
SPEAKER

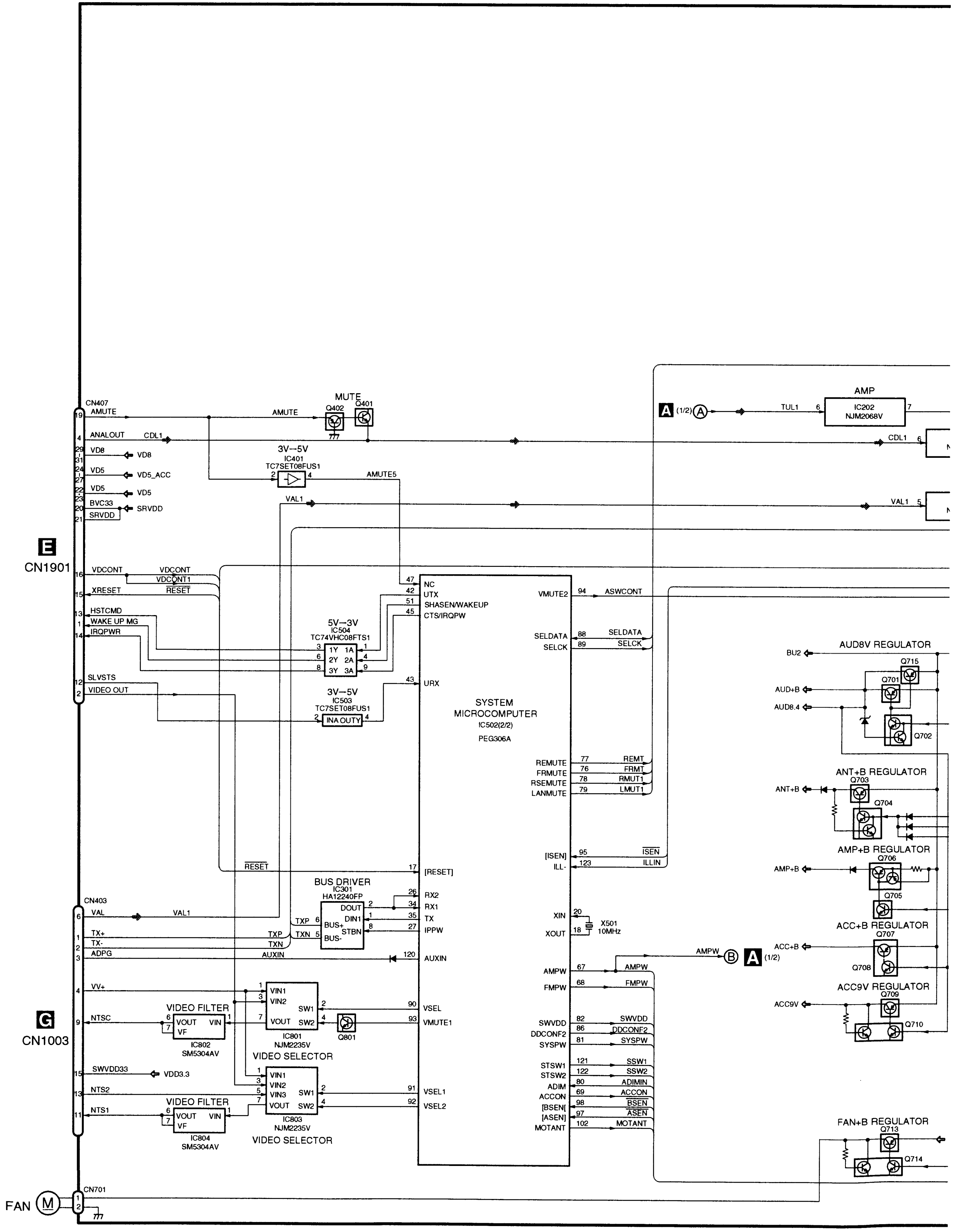
4. BLOCK DIAGRAM

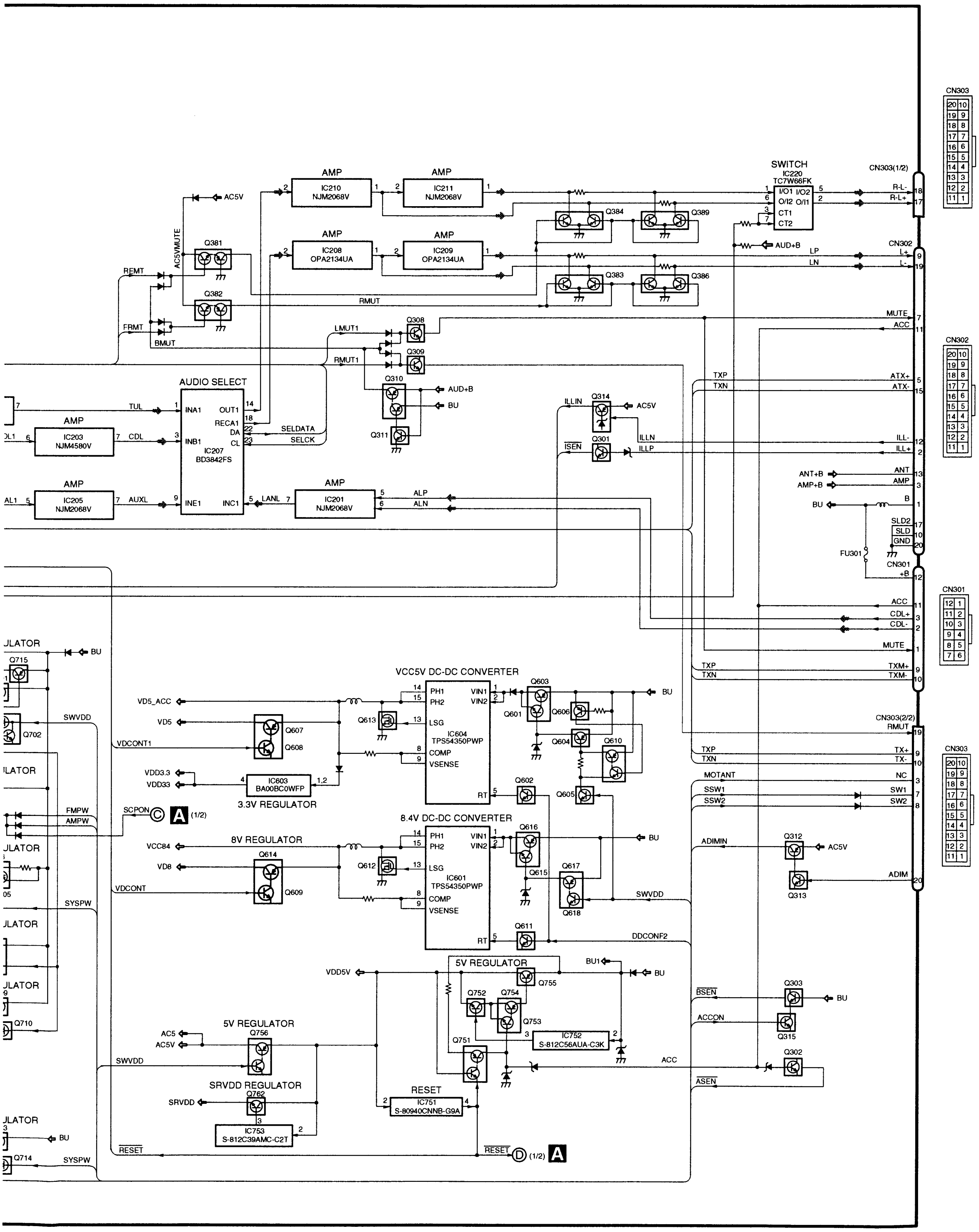
4.1 BLOCK DIAGRAM


A MAIN UNIT (1/2)
ANT11
MAIN
ANTENNA
SUB
4
1,5
3
2
MAIN DIVERSITY
Q11
MMAIN
Q12
SMAIN
D11
Q13
TU10V
Q15
Q16
Q14
SUB DIVERSITY
Q17
MSUB
Q18
SSUB
D15
Q19
TU10V
Q21
Q22
Q20
Q23
MAINFIX
D102
Q102
Q104
Q103
AMPW
AMPW
B (2/2) A
D105
Q114
Q115
Y101
1 AMANT
3 FMANT
4 VCC
17 VDD3.3
13 ROMVDD
22 DIVER
23 LCH
16 COMP
18 RDSCK
19 RDSDATA
20 RDSLOCK
21 RDSHSLK
14 DO
8 CE1
9 $\overline{CK}$
10 DI
5 SL
6 $\overline{CE2}$
7 $\overline{WC}$
11 LDET
AUD8.4
VDD33
AC5
FM/AM TUNER UNIT MAIN
Q106
TUL1
A (2/2) A
Q105
Q109
RCK
RDSDT
Q110
RDSLK
RHSLK
PDI
PCE1
$\overline{PCK}$
PDO
$\overline{PCE2}$
WC
Q108
$\overline{LDET}$
Y102
3 FMANT
4 VCC
17 VDD3.3
13 ROMVDD
22 DIVER
16 COMP
18 RDSCK
19 RDSDATA
20 RDSLOCK
21 RDSHSLK
14 DO
8 CE1
9 $\overline{CK}$
10 DI
5 SL
6 $\overline{CE2}$
11 LDET
AUD8.4
VDD3.3
AC5
FM/AM TUNER UNIT SUB
MCOMP
Q116
Q117
SCOMP
Q119
VIDEO AMP
IC102
NJM2068V
5
2
7
1
COMPP
COMPN
SCPON
MCPON
Q125
SRCK
SRDSDT
Q126
SRDSLK
SRHSLK
SPDI
SPCE1
$\overline{SPCK}$
SPDO
$\overline{SSL}$
$\overline{SPCE2}$
Q123
$\overline{SLDET}$

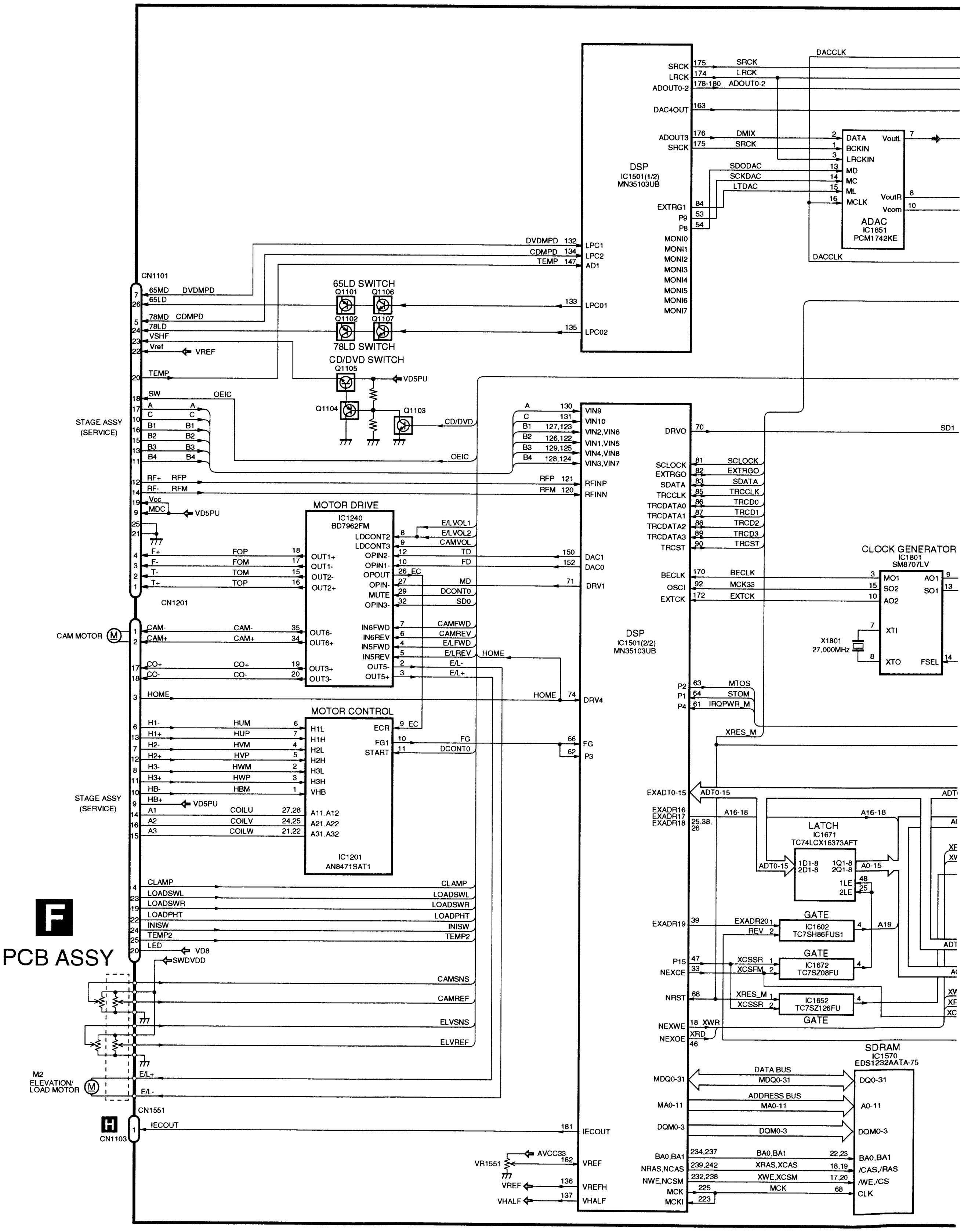

A
B
C
D
E
F
CN303
20 10
19 9
18 8
17 7
16 6
15 5
14 4
13 3
12 2
11 1
CN303(1/3)
CMP+
CMP-
4
5
62 MAINFIX
SYSTEM MICROCOMPUTER
IC502(1/2)
PEG306A
CN501
VDD5V
1
2
SHBSEN
52PIN
10
61PIN
4
CNVSS 14
[BRXEN] 41
BCK 40
BSI 38
BSO 36
CNVSS 5
BRXEN 12
BCK 13
BSI 14
BDATA 15
A (2/2) D RESET
RESET 11
128 SL
RCK 23 RCK
RDSDT 52 SHBSEN/RDSDT
RDSLK 53 SHVSEN/RDSLK
RHSLK 54 SHVCONT/RHSLK
LDET 24 [LDET]
PDI 3 PDI
PCE1 7 PCE1
PCK 5 [PCK]
PDO 4 PDO
PCE2 6 [PCE2]
WC 83 WC
COMPP
COMPN
A C SCPON
(2/2)
61 SCOMPON
60 MCOMPON
SRCK 25 AMSUB/SRCK
SRDSDT 59 MBP2/SRDSDT
SRDSLK 57 SBP1/SRDSLK
SRHSLK 58 SBP2/SRHSLK
SLDET 55 MBP1/[SLDET]
SPDI 118 SPDI
SPCE1 115 SPCE1
SPCK 119 [SPCK]
SPDO 117 SPDO
SSL 126 SSL
SPCE2 116 [SPCE2]
ENC1P 11 ENC1P
ENC1M 12 ENC1N
ENC2P 15 ENC2P
ENC2M 16 ENC2N
LDTI 9 LDTI
LCK 10 LCK
LCE 30 LCE
LDTO 8 LDTO
PWMBL 29 PWMBL
PINFO 63 PINFO
PWMILL 31 PWMILL
CN408
ACC+B
ACC+B 1
ENC1P ENCVOL+ 2
ENC1N ENCVOL- 3
ACC9V
ACC9V 4
ENC2P ENCAUD+ 5
ENC2N ENCAUD- 6
AC5V
ICVDD 7
LDTI LCDDO 8
LCK LCDCK 9
LCE LCDCE 10
LDTO LCDDI 11
PWMBL PWMBL 14
PINFO P-INFO 15
PWMILL PWMILL 16
B
CN2001

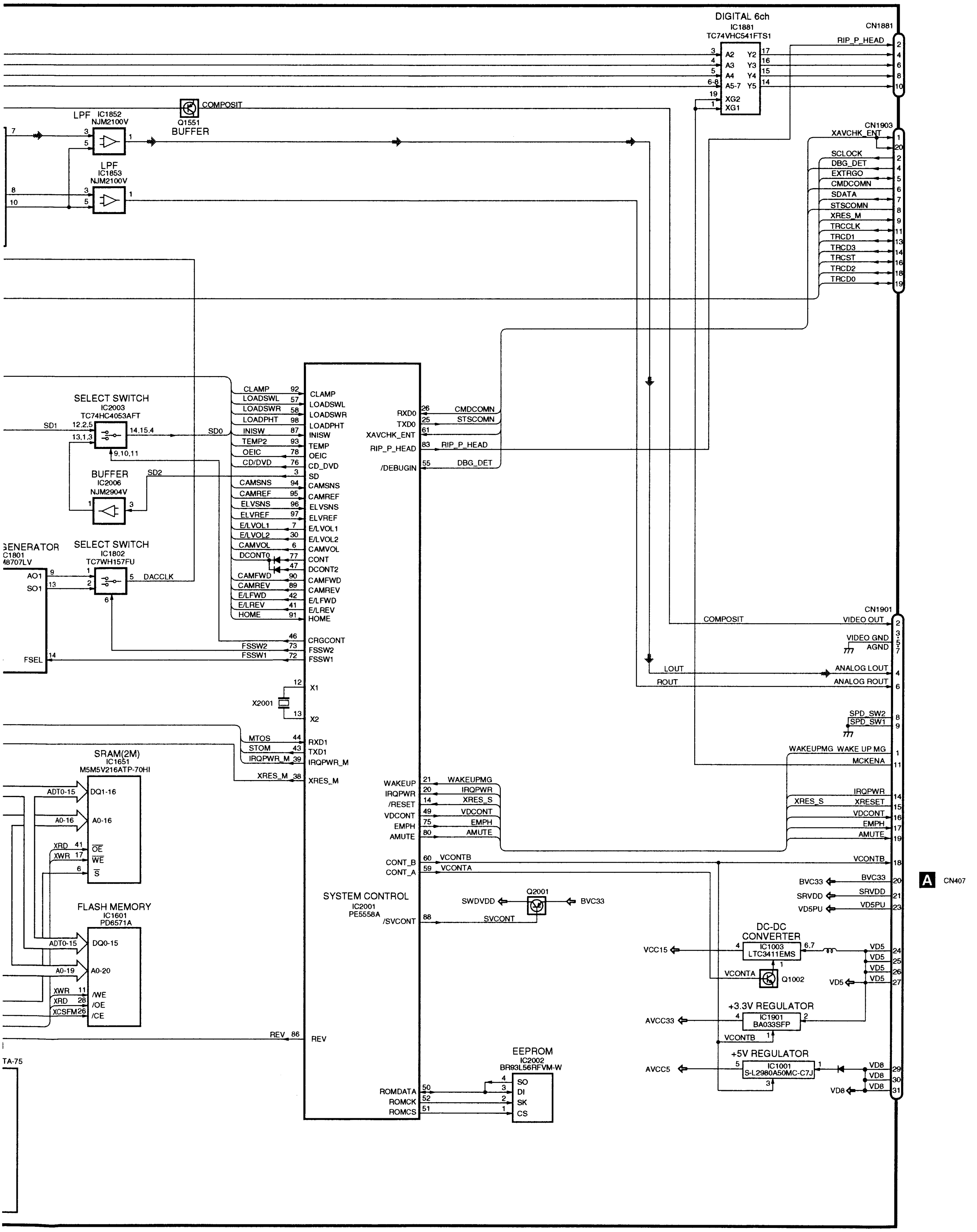
A MAIN UNIT (2/2)


CN407
AMUTE
ANALOUT
CDL1
VD8
VD5
VD5_ACC
BVC33
SRVDD
MUTE
Q402
Q401
3V→5V
IC401
TC7SET08FUS1
AMUTE5
VAL1
E
CN1901
VDCONT
VDCONT1
XRESET
RESET
HSTCMD
WAKE UP MG
IRQPWR
SLVSTS
VIDEO OUT
5V→3V
IC504
TC74VHC08FTS1
1Y 1A
2Y 2A
3Y 3A
IC503
INA OUTY
NC
UTX
SHASEN/WAKEUP
CTS/IRQPW
URX
SYSTEM
MICROCOMPUTER
IC502(2/2)
PEG306A
VMUTE2
ASWCONT
SELDATA
SELCK
REMUTE
FRMUTE
RSEMUTE
LANMUTE
REMT
FRMT
RMUT1
LMUT1
[ISEN]
ILL-
ISEN
ILLIN
[RESET]
BUS DRIVER
IC301
HA12240FP
DOUT
DIN1
BUS+
BUS-
STBN
RX2
RX1
TX
IPPW
TXP
TXN
AUXIN
XIN
XOUT
X501
10MHz
AMPW
FMPW
SWVDD
DDCONF2
SYSPW
STSW1
STSW2
ADIM
ACCON
[BSEN]
[ASEN]
MOTANT
SSW1
SSW2
ADIMIN
BSEN
ASEN
CN403
TX+
TX-
ADPG
VV+
NTSC
VIDEO FILTER
VOUT VIN
VF
IC802
SM5304AV
VIN1
VIN2
VIN3
VOUT
SW1
SW2
IC801
NJM2235V
Q801
VIDEO SELECTOR
VSEL
VMUTE1
VSEL1
VSEL2
G
CN1003
SWVDD33
VDD3.3
NTS2
NTS1
IC804
IC803
FAN
M
CN701
A (1/2) A
TUL1
AMP
IC202
NJM2068V
AMPW B A (1/2)
AUD8V REGULATOR
BU2
AUD+B
AUD8.4
Q715
Q701
Q702
ANT+B REGULATOR
ANT+B
Q703
Q704
AMP+B REGULATOR
AMP+B
Q706
Q705
ACC+B REGULATOR
ACC+B
Q707
Q708
ACC9V REGULATOR
ACC9V
Q709
Q710
FAN+B REGULATOR
Q713
Q714

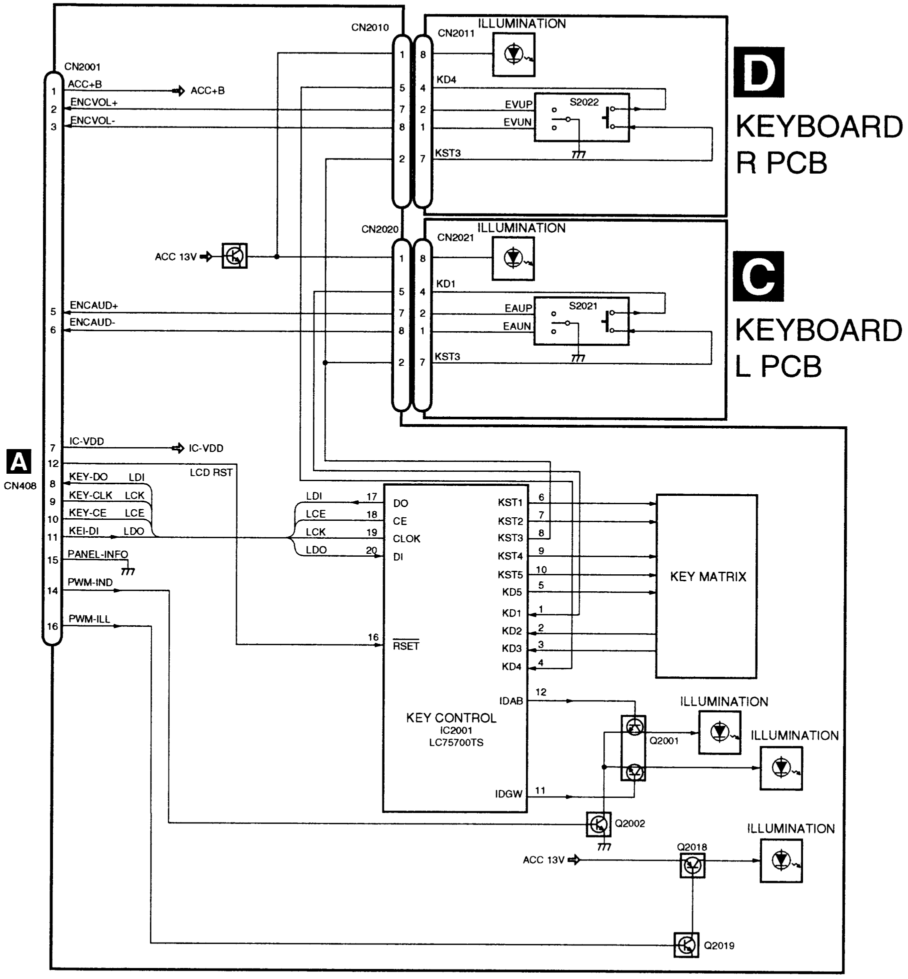

AMP
IC210
NJM2068V
AMP
IC211
NJM2068V
AMP
IC208
OPA2134UA
AMP
IC209
OPA2134UA
SWITCH
IC220
TC7W66FK
I/O1 I/O2
O/I2 O/I1
CT1
CT2
R-L-
R-L+
CN303(1/2)
CN303
AC5V
AC5VMUTE
Q381
Q382
Q384
Q389
Q383
Q386
REMT
FRMT
BMUT
RMUT
AUD+B
LP
LN
CN302
L+
L-
MUTE
ACC
LMUT1
RMUT1
Q308
Q309
Q310
Q311
AUD+B
BU
AUDIO SELECT
INA1
OUT1
RECA1
DA
CL
INB1
IC207
BD3842FS
INE1
INC1
TUL
AMP
IC203
NJM4580V
CDL
AMP
IC205
NJM2068V
AUXL
SELDATA
SELCK
LANL
AMP
IC201
NJM2068V
ALP
ALN
ILLIN
Q314
AC5V
ISEN
Q301
ILLN
ILLP
TXP
TXN
ATX+
ATX-
ILL-
ILL+
ANT+B
AMP+B
ANT
AMP
BU
B
SLD2
SLD
GND
FU301
CN301
+B
ACC
CDL+
CDL-
MUTE
TXM+
TXM-
CN303(2/2)
RMUT
TX+
TX-
MOTANT
NC
SSW1
SSW2
SW1
SW2
ADIMIN
Q312
AC5V
ADIM
Q313
BSEN
Q303
BU
ACCON
Q315
ACC
Q302
ASEN
CN302
CN301
CN303
ULATOR
BU
Q715
SWVDD
Q702
ULATOR
FMPW
AMPW
ULATOR
SYSPW
ULATOR
ULATOR
Q710
ULATOR
BU
Q714
SYSPW
VCC5V DC-DC CONVERTER
VD5_ACC
VD5
VDCONT1
Q607
Q608
Q613
PH1
PH2
LSG
IC604
TPS54350PWP
COMP
VSENSE
VIN1
VIN2
RT
Q603
Q601
Q606
Q604
Q610
Q602
Q605
BU
VDD3.3
VDD33
IC603
BA00BC0WFP
3.3V REGULATOR
SCPON
(1/2)
8.4V DC-DC CONVERTER
8V REGULATOR
VCC84
VD8
VDCONT
Q614
Q609
Q612
IC601
TPS54350PWP
Q616
Q615
Q617
Q618
Q611
SWVDD
DDCONF2
VDD5V
5V REGULATOR
BU1
BU
Q755
Q752
Q754
Q753
IC752
S-812C56AUA-C3K
Q751
ACC
5V REGULATOR
AC5
AC5V
Q756
SWVDD
SRVDD REGULATOR
SRVDD
Q762
IC753
S-812C39AMC-C2T
RESET
IC751
S-80940CNNB-G9A
RESET
RESET
(1/2)

E DVD CORE UNIT


DSP
IC1501(1/2)
MN35103UB
SRCK
LRCK
ADOUT0-2
DAC4OUT
ADOUT3
EXTRG1
P9
P8
MONI0
MONI1
MONI2
MONI3
MONI4
MONI5
MONI6
MONI7
LPC1
LPC2
AD1
LPC01
LPC02
DACCLK
DMIX
SDODAC
SCKDAC
LTDAC
ADAC
IC1851
PCM1742KE
DATA
BCKIN
LRCKIN
MD
MC
ML
MCLK
VoutL
VoutR
Vcom
DVDMPD
CDMPD
TEMP
CN1101
65MD
65LD
78MD
78LD
VSHF
Vref
VREF
65LD SWITCH
Q1101
Q1106
Q1102
Q1107
78LD SWITCH
CD/DVD SWITCH
Q1105
Q1104
Q1103
VD5PU
CD/DVD
OEIC
SW
STAGE ASSY
(SERVICE)
A
C
B1
B2
B3
B4
RF+
RFP
RF-
RFM
Vcc
MDC
VIN9
VIN10
VIN2,VIN6
VIN1,VIN5
VIN4,VIN8
VIN3,VIN7
RFINP
RFINN
DRVO
SD1
SCLOCK
EXTRGO
SDATA
TRCCLK
TRCDATA0
TRCDATA1
TRCDATA2
TRCDATA3
TRCST
MOTOR DRIVE
IC1240
BD7962FM
F+
F-
T-
T+
FOP
FOM
TOM
TOP
OUT1+
OUT1-
OUT2-
OUT2+
LDCONT2
LDCONT3
OPIN2-
OPIN1-
OPOUT
OPIN-
MUTE
OPIN3-
E/LVOL1
E/LVOL2
CAMVOL
TD
FD
EC
MD
DCONT0
SD0
DAC1
DAC0
DRV1
BECLK
OSCI
EXTCK
MCK33
CLOCK GENERATOR
IC1801
SM8707LV
MO1
SO2
AO2
AO1
SO1
XTI
XTO
FSEL
X1801
27.000MHz
CN1201
CAM MOTOR
CAM-
CAM+
OUT6-
OUT6+
IN6FWD
IN6REV
IN5FWD
IN5REV
OUT5-
OUT5+
CAMFWD
CAMREV
E/LFWD
E/LREV
E/L-
E/L+
HOME
CO+
CO-
OUT3+
OUT3-
DSP
IC1501(2/2)
MN35103UB
DRV4
P2
P1
P4
MTOS
STOM
IRQPWR_M
XRES_M
MOTOR CONTROL
H1-
H1+
H2-
H2+
H3-
H3+
HB-
HB+
HUM
HUP
HVM
HVP
HWM
HWP
HBM
H1L
H1H
H2L
H2H
H3L
H3H
VHB
ECR
FG1
START
FG
P3
A1
A2
A3
COILU
COILV
COILW
A11,A12
A21,A22
A31,A32
IC1201
AN8471SAT1
EXADT0-15
ADT0-15
EXADR16
EXADR17
EXADR18
A16-18
LATCH
IC1671
TC74LCX16373AFT
1D1-8
2D1-8
1Q1-8
2Q1-8
1LE
2LE
A0-15
EXADR19
EXADR20
REV
GATE
IC1602
TC7SH86FUS1
A19
P15
NEXCE
XCSSR
XCSFM
IC1672
TC7SZ08FU
NRST
IC1652
TC7SZ126FU
NEXWE
NEXOE
XWR
XRD
CLAMP
LOADSWL
LOADSWR
LOADPHT
INISW
TEMP2
LED
VD8
SWDVDD
CAMSNS
CAMREF
ELVSNS
ELVREF
M2
ELEVATION/
LOAD MOTOR
E/L+
E/L-
CN1551
CN1103
IECOUT
H
SDRAM
IC1570
EDS1232AATA-75
MDQ0-31
DATA BUS
ADDRESS BUS
MA0-11
DQM0-3
DQ0-31
A0-11
BA0,BA1
NRAS,NCAS
NWE,NCSM
MCK
MCKI
XRAS,XCAS
XWE,XCSM
/CAS,/RAS
/WE,/CS
CLK
VR1551
AVCC33
VREF
VREFH
VHALF
F
PCB ASSY
A
B
C
D
E
F

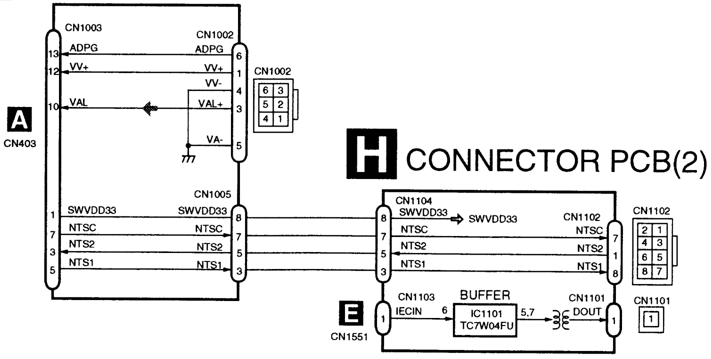

DIGITAL 6ch
IC1881
TC74VHC541FTS1
A2 A3 A4 A5-7 XG2 XG1
Y2 Y3 Y4 Y5
CN1881
RIP_P_HEAD
COMPOSIT
Q1551
BUFFER
LPF
IC1852
NJM2100V
LPF
IC1853
NJM2100V
CN1903
XAVCHK_ENT
SCLOCK
DBG_DET
EXTRGO
CMDCOMN
SDATA
STSCOMN
XRES_M
TRCCLK
TRCD1
TRCD3
TRCST
TRCD2
TRCD0
SELECT SWITCH
IC2003
TC74HC4053AFT
SD1
SD0
SD2
BUFFER
IC2006
NJM2904V
GENERATOR
IC1801
M48707LV
AO1
SO1
FSEL
SELECT SWITCH
IC1802
TC7WH157FU
DACCLK
CLAMP
LOADSWL
LOADSWR
LOADPHT
INISW
TEMP2
OEIC
CD/DVD
CAMSNS
CAMREF
ELVSNS
ELVREF
E/LVOL1
E/LVOL2
CAMVOL
DCONT0
CAMFWD
CAMREV
E/LFWD
E/LREV
HOME
CLAMP
LOADSWL
LOADSWR
LOADPHT
INISW
TEMP
OEIC
CD_DVD
SD
CAMSNS
CAMREF
ELVSNS
ELVREF
E/LVOL1
E/LVOL2
CAMVOL
CONT
DCONT2
CAMFWD
CAMREV
E/LFWD
E/LREV
HOME
CRGCONT
FSSW2
FSSW1
X1
X2
X2001
RXD1
TXD1
IRQPWR_M
XRES_M
MTOS
STOM
REV
RXD0
TXD0
XAVCHK_ENT
RIP_P_HEAD
/DEBUGIN
CMDCOMN
STSCOMN
DBG_DET
WAKEUP
IRQPWR
/RESET
VDCONT
EMPH
AMUTE
WAKEUPMG
XRES_S
CONT_B
CONT_A
VCONTB
VCONTA
/SVCONT
SVCONT
SYSTEM CONTROL
IC2001
PE5558A
SWDVDD
Q2001
BVC33
ROMDATA
ROMCK
ROMCS
EEPROM
IC2002
BR93L56RFVM-W
SO DI SK CS
SRAM(2M)
IC1651
M5M5V216ATP-70HI
ADT0-15
DQ1-16
A0-16
XRD
XWR
OE
WE
S
FLASH MEMORY
IC1601
PD6571A
DQ0-15
A0-19
A0-20
/WE
/OE
/CE
XCSFM
TA-75
CN1901
COMPOSIT
VIDEO OUT
VIDEO GND
AGND
LOUT
ANALOG LOUT
ROUT
ANALOG ROUT
SPD_SW2
SPD_SW1
WAKEUPMG
WAKE UP MG
MCKENA
IRQPWR
XRESET
VDCONT
EMPH
AMUTE
VCONTB
BVC33
SRVDD
VD5PU
DC-DC
CONVERTER
IC1003
LTC3411EMS
VCC15
VCONTA
Q1002
VD5
+3.3V REGULATOR
IC1901
BA033SFP
AVCC33
VCONTB
+5V REGULATOR
IC1001
S-L2980A50MC-C7J
AVCC5
VD8
A
CN407

B KEYBOARD PCB

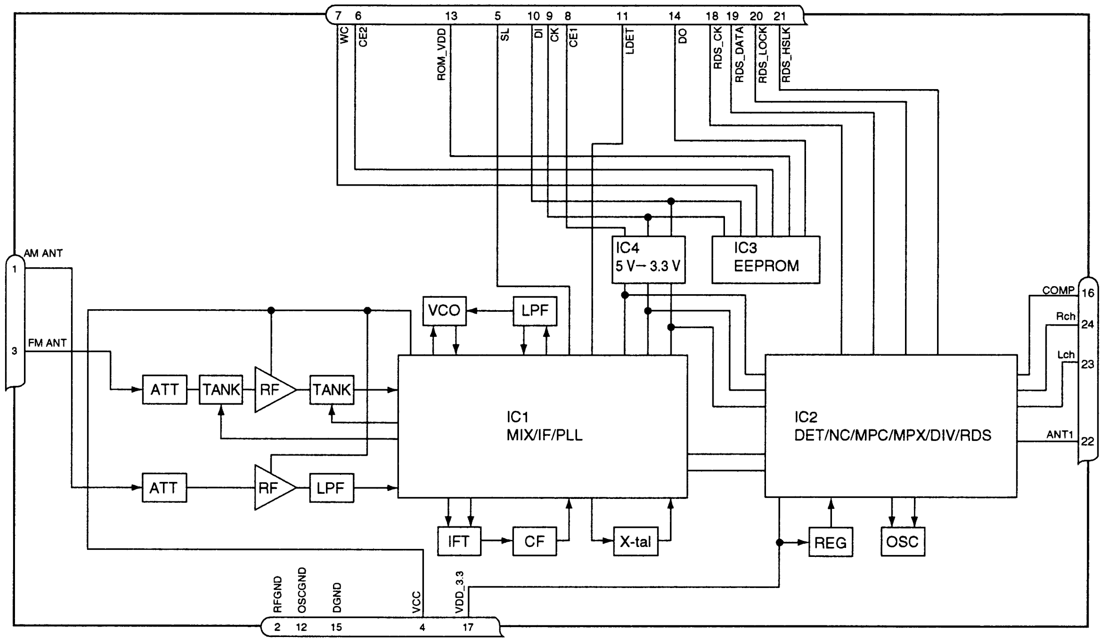

CN2010
CN2011
ILLUMINATION
D
KEYBOARD
R PCB
CN2001
ACC+B
ACC+B
ENCVOL+
ENCVOL-
KD4
EVUP
EVUN
S2022
KST3
CN2020
CN2021
ILLUMINATION
ACC 13V
C
KEYBOARD
L PCB
KD1
EAUP
EAUN
S2021
ENCAUD+
ENCAUD-
KST3
A
CN408
IC-VDD
IC-VDD
LCD RST
KEY-DO
KEY-CLK
KEY-CE
KEI-DI
LDI
LCK
LCE
LDO
PANEL-INFO
PWM-IND
PWM-ILL
DO
CE
CLOK
DI
RSET
KST1
KST2
KST3
KST4
KST5
KD5
KD1
KD2
KD3
KD4
IDAB
IDGW
KEY CONTROL
IC2001
LC75700TS
KEY MATRIX
ILLUMINATION
ILLUMINATION
Q2001
Q2002
ILLUMINATION
ACC 13V
Q2018
Q2019

G CONNECTOR PCB(1)

H CONNECTOR PCB(2)


CN1003
CN1002
ADPG
ADPG
VV+
VV+
VV-
VAL
VAL+
VA-
CN1002
A
CN403
CN1005
SWVDD33
SWVDD33
NTSC
NTSC
NTS2
NTS2
NTS1
NTS1
CN1104
SWVDD33
SWVDD33
CN1102
NTSC
NTSC
NTS2
NTS2
NTS1
NTS1
CN1102
CN1103
BUFFER
CN1101
IECIN
IC1101
TC7W04FU
DOUT
CN1101
E
CN1551

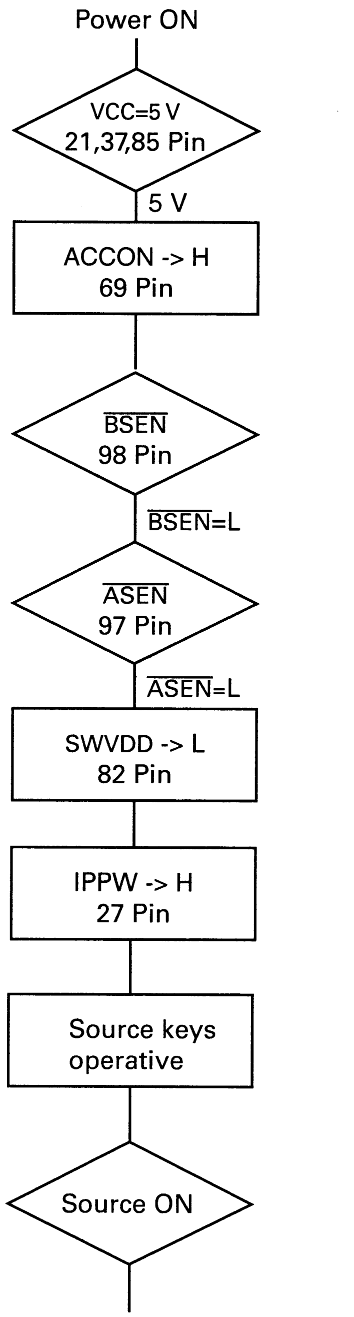
● FM/AM Tuner Unit


7 WC
6 CE2
13 ROM_VDD
5 SL
10 DI
9 CK
8 CE1
11 LDET
14 DO
18 RDS_CK
19 RDS_DATA
20 RDS_LOCK
21 RDS_HSLK
AM ANT 1
FM ANT 3
IC4 5 V − 3.3 V
IC3 EEPROM
VCO
LPF
ATT
TANK
RF
TANK
ATT
RF
LPF
IC1 MIX/IF/PLL
IC2 DET/NC/MPC/MPX/DIV/RDS
COMP 16
Rch 24
Lch 23
ANT1 22
IFT
CF
X-tal
REG
OSC
RFGND 2
OSCGND 12
DGND 15
VCC 4
VDD_3.3 17

No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with an all antenna by way of 33 µH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	I	FM antenna input	Input of FM antenna 75 Ω Surge absorber is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4 V ± 0.3 V
5	SL	O	signal level	Output of FM/AM signals level
6	CE2	I	chip enable-2	Chip enable for EEPROM "Low" active
7	WC	I	write control	You can write EEPROM, when EEPROM write control is "Low". Ordinary non connection
8	CE1	I	chip enable-1	Chip enable for AF•RF "High" active
9	CK	I	clock	Clock data input
10	DI	I	data in	Data input
11	LDET	O	lock detector	"Low" active
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out	Data output
15	DGND		digital ground	Ground of digital block
16	COMP	O	composite output	FM composite signal output.
17	VDD_3.3		power supply	The power supply for digital block. 3.3 V ± 0.2 V
18	RDS_CK	O	RDS clock	Output of RDS clock(2.5 V)
19	RDS_DATA	O	RDS data	Output of RDS data(2.5 V)
20	RDS_LOCK	O	RDS lock	Output unit "High" active(2.5 V) (RDS_LOCK turns over by the external transistor. "Low" active)
21	RDS_HSLK	O	RDS high speed lock	Output unit "High" active(2.5 V)(RDS_HSLK turns over by the external transistor. "Low" active)
22	ANT1		diversity antenna control	Antenna switch control signal output. "High" : MAIN, "Low" : SUB
23	L ch	O	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output	FM stereo "R-ch" signal output or AM audio output

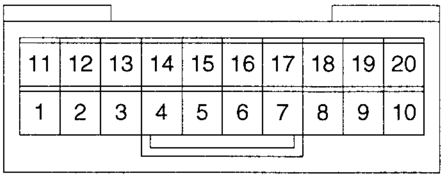
5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART


Power ON
VCC=5 V
21,37,85 Pin
5 V
ACCON -> H
69 Pin
$\overline{\text{BSEN}}$
98 Pin
$\overline{\text{BSEN}}$=L
$\overline{\text{ASEN}}$
97 Pin
$\overline{\text{ASEN}}$=L
SWVDD -> L
82 Pin
IPPW -> H
27 Pin
Source keys
operative
Source ON

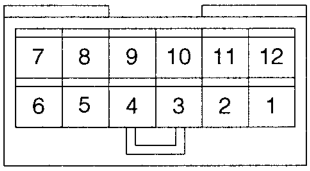
Completes power-on operation.
(After that, proceed to each source operation)

5.2 CONNECTOR FUNCTION DESCRIPTION


11 12 13 14 15 16 17 18 19 20
1 2 3 4 5 6 7 8 9 10

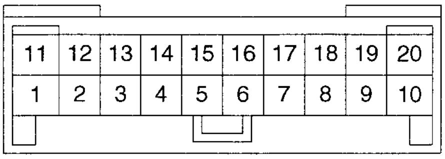
~~1 : IO2+~~
~~2 : IO2-~~
~~3 : MTOR~~
4 : CMP+
5 : CMP-
6 : SWG
7 : SW1
8 : SW2
9 : TX+
10 : TX-

~~11 : IO1+~~
~~12 : IO1-~~
~~13 : SLD1~~
14 : RSLD
15 : R-R+
16 : R-R-
17 : R-L+
18 : R-L-
19 : RMUT
~~20 : ADIM~~


7 8 9 10 11 12
6 5 4 3 2 1

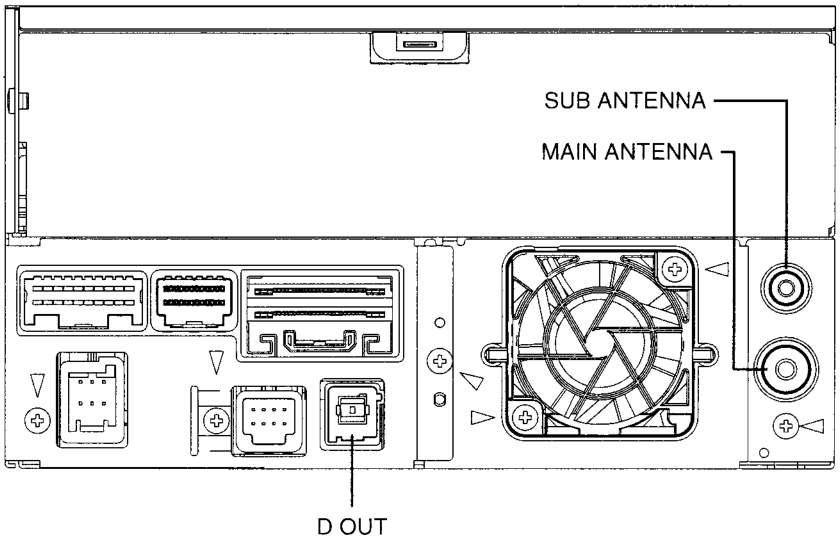
1 : MUTE
2 : CDL-
3 : CDL+
4 : CDR-
5 : CDR+
6 : CSLD

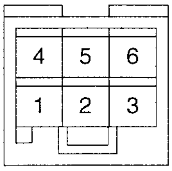
~~7 : GND~~
~~8 : NC~~
9 : TXM+
10 : TXM-
~~11 : ACC~~
~~12 : +B~~


11 12 13 14 15 16 17 18 19 20
1 2 3 4 5 6 7 8 9 10

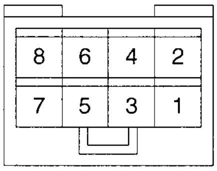
1 : +B
2 : ILL+
~~3 : AMP~~
~~4 : ANTA~~
5 : ATX+
~~6 : IVI+~~
7 : MUTE
8 : R+
9 : L+
10 : SLDG

11 : ACC
12 : ILL-
13 : ANT
~~14 : ANTB~~
15 : ATX-
~~16 : IVI-~~
17 : SLDG2
18 : R-
19 : L-
20 : GND


SUB ANTENNA
MAIN ANTENNA
D OUT



1 : NC
2 : ARI
3 : ALI
4 : AGND
5 : ASGN
6 : AUXI



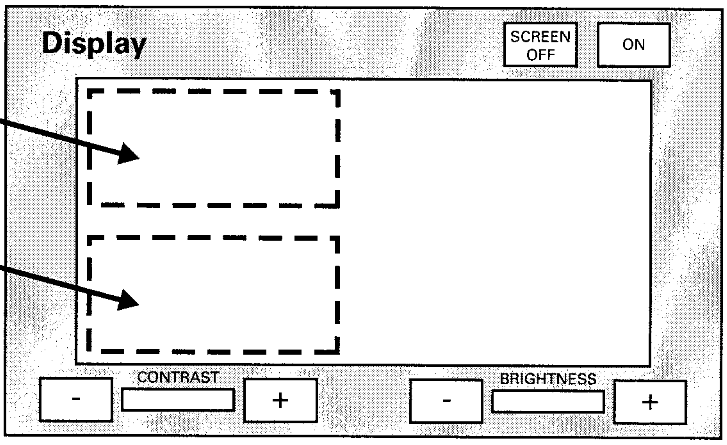
~~1 : NTS2~~
~~2 : GND2~~
3 : SLDG
4 : SLDG
5 : GND
6 : GND1
7 : NTSC
8 : NTS1

6. SERVICE MODE

6.1 DIAGNOSIS MODE

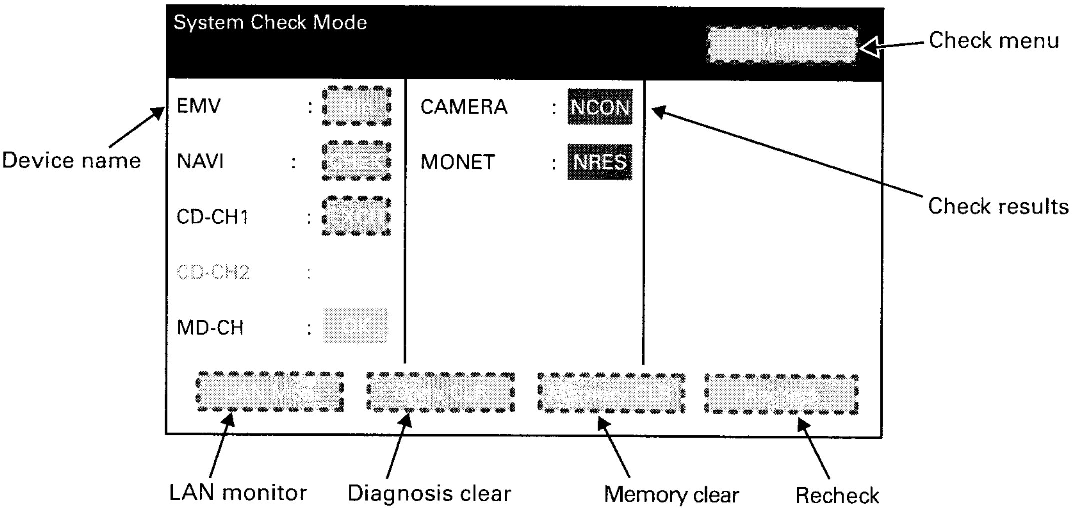
● SYSTEM WITH EMV

1. To Service Check


Display
SCREEN OFF
ON
A
B
CONTRAST
-
+
BRIGHTNESS
-
+

1. Press [OPTION] key of EMV .
2. Press [DISPLAY] key of EMV .
3. The position of A and B is order of pushed 6 times in A,B,A,B,A and B.
   ->Service Check screen is displayed.

2. Service Check


System Check Mode
Menu
Check menu
Device name
EMV : Old
NAVI : CHEK
CD-CH1 : EXCH
CD-CH2 :
MD-CH : OK
CAMERA : NCON
MONET : NRES
Check results
Memory CLR
Recheck
LAN monitor
Diagnosis clear
Memory clear
Recheck

->As it is, it waits for a while.
(In general less than 1 minute)

Inspection result list

OK	No problem
EXCH	Exchange
CHEK	Check(diagnosis recorded)
NCON	Not connected
NRES	No response
Old	Old version

3. How to exit from the diagnostic test mode

Turn off the ACC or press DISPLAY key more than 1.7 sec.

Diagnosis code table

Logical address name	Logical address	Diagnosis code	Diagnosis details
Communi -cation control	01H	00	No diagnosis
		01	Abnormal reset
		10	Abnormal +B
		11	Abnormal ACC
		12	Abnormal MUTE
		13	Fuse broken
		20	Microcomputer - abnormal
		21	ROM - abnormal
		22	RAM - abnormal
		23	Bus - abnormal
		24	F-ROM - abnormal
		25	V-RAM - abnormal
		26	Gate allay abnormal
		27	Paint controller abnormal
		28	Backup memory abnormal
		29	Voice output controller abnormal
		2A	Internal power supply abnormal
		30	Sync signal abnormal (input)
		31	Sync signal abnormal (output)
		D0	ECU not connected
		D1	Transmission abnormal
		D2	Connecting confirmation: abnormal
		D4	Connecting confirmation: no response
		D5	Registered device data missing (History of registered devices)
		D6	Master unavailable
		D7	Connecting confirmation: abnormal
		D8	Connecting confirmation: no response
		D9	Last mode abnormal
		DA	Command/order: no response
		DB	Mode status abnormal
		DC	Transmission fault
		DD	Master reset
		DE	Slave reset
		DF	Master abnormal
		E0	Registration completion acknowledgement error
		E1	Voice processor ON abnormal
		E2	ON/OFF command or parameter abnormal
		E3	Registration command transmission
		E4	Multiple frames intermit.
		FF	Diagnosis - no response

Logical address name	Logical address	Diagnosis code	Diagnosis details
Radio	60H	10	AM tuner PLL unlocked
		11	FM tuner PLL unlocked
		40	No antenna connected
		41	Antenna power supply abnormal
		42	Tuner power supply abnormal
		43	AM tuner abnormal
		44	FM tuner abnormal
		45	SW tuner abnormal
		50	Internal IC abnormal
TV tuner	40H	10	TV tuner PLL unlocked
		11	FRONTEND abnormal
		40	TV divergence shifting error
		41	TV Ð no reception
		42	VNR screen error
		43	No antenna connected
		44	Antenna power supply abnormal
		45	SEL +B current Ð small
		46	SEL +B current Ð large
Cassette tape	61H	10	Belt broken
		40	Mechanical failure or cassette broken
		41	EJECT failure
		42	TAPE jamming
		43	Dirty head
		44	Mech power supply abnormal
HDD Audio	69H	42	Unable to playback (DSP abnormal)
		43	Playback data underflow
VOL	74H	40	Short circuited sense

Logical address name	Logical address	Diagnosis code	Diagnosis details
Navigation	58H	10	Gyroscope abnormal
GPS	80H	11	GPS receiver abnormal
		12	RTC abnormal
		13	SS section abnormal
		14	NoTime updating
		15	TCXO abnormal
		16	PLL lock abnormal
		17	HDD abnormal
		40	GPS antenna abnormal
		41	GPS antenna power supply abnormal
		42	Map disc reading abnormal
		43	SPD signal abnormal
		44	Player abnormal
		45	High temperature abnormal
FM multiplex (general) drawing	5AH	41	Antenna power supply abnormal
VICS drawing	5BH	45	Radio wave beacon - no antenna connected
FM multiplex (data)	82H	46	Optical beacon - no antenna connected
Optical beacon (data)	83H	47	No FM antenna connected
Radio wave beacon (data)	84H	4A	FM receiver abnormal
FM multiplex tuner	9AH	4B	Radio wave beacon abnormal
		4C	Optical beacon abnormal
Voice control	85H	40	Voice-control activation SW abnormal
		41	Voice-control Microphone abnormal
Extended communication	02H	40	Multi-CD-CH (optical cable) abnormal
		41	Multi-CD-CH (optical cable) not connected
		42	Multi-CD-CH (CarNet) abnormal
		43	Multi-CD-CH (CarNet) not connected
		50	HIT64 communication not connected
		51	HIT64 communication abnormal
		52	HIT64 BRQ disconnection
		53	HIT64 BRQ short-circuit
		54	HIT64 disconnection
		55	CarNet communication not connected
		56	CarNet communication abnormal
		57	CarNet periodical communication abnormal
		D0	Device not connected
		D1	Transmission abnormal
		D2	Periodical communication no response
		D4	Periodical communication abnormal
		FF	Diagnostic - no response
Information display/front monitors	32H	10	Video circuit abnormal
	34H	11	Back light abnormal (with no current)
		12	Back light abnormal (with excessive current)
		13	Panel open/close mechanical operation abnormal
		40	Front seat monitor abnormal
		41	Heater abnormal
SW	21H	10	Panel SW abnormal
SW shifting with a name	23H	11	Touch SW failure
SW shifting	24H		
Command SW	25H		

Diagnosis code table

Logical address name	Logical address	Diagnosis code	Diagnosis details
H/W CD-CH	43H	10	Mechanical abnormal
DVD-P	44H	11	Insertion ejection abnormal
DVD-CH	45H	12	Read abnormal
CD-P	62H	40	No disc
CD-CH	63H	41	Wrong disc
MD-P	64H	42	Disc cannot be read
MD-CH	65H	43	CD-ROM abnormal
		44	CD/MD/DVD abnormal
		45	EJECT abnormal
		46	Disc scratch/reverse side/ Disc dirty_scratch_reverse side
		47	High temperature detection
		48	Excessivecurrent detection
		50	Tray insertion ejection abnormal
		51	Elevation abnormal
		52	Clamp abnormal
		78	DSP abnormal
		7D	Unable to playback
		7E	No file available for playback
		7F	Copy right protection abnormal
DTV(NTSC)	46H	10	RF abnormal
DTV(RGB)	49H	11	OFDM abnormal
		12	Decoder abnormal
		40	Antenna 1 connection abnormal
		41	Antenna 2 connection abnormal
		42	B_CAS card abnormal
		43	BML version mismatch (caution)
Telephone drawing	57H	10	TEL ECU abnormal
Telephone	6DH	40	Communication line serial line abnormal
		41	Radio PWR line abnormal
		47	Bluetooth module initialization failure
		48	DCM initialization failure
AUI	A7	40	DSP abnormal
		41	Unable to playback startup BGM
		42	Internal IC abnormal
XM	C0H	11	PLL unlocked
		12	CDEC communication error
		13	SSDEC communication error
		14	SSDEC no response
		15	NVM error
		16	CAP error
		40	No antenna connected
		41	Antenna short-circuited
DVD-P dedicated to rear seat	D2H	42	Disc cannot be read
		44	CD/MD/DVD abnormal
		45	EJECT abnormal
		46	Disc scratch/reverse side/ Disc dirty_scratch_reverse side
		52	Clamp abnormal

Logical address name	Logical address	Diagnosis code	Diagnosis details
Monitoring camera	5CH	40	Camera image abnormal
		41	Steering sensor abnormal
		42	Steering sensor communication line abnormal
		43	VGRS abnormal
		44	VGRS communication line abnormal
		45	Shift information communication abnormal
		46	W/B (wheel base) information mismatch
		50	ECU abnormal
		51	IG voltage abnormal
		52	ACC voltage abnormal
		53	Back camera power supply abnormal
		56	Steering sensor +B disconnection
		57	Steering sensor signal fixing
		58	Vehicle height sensor power supply abnormal
		59	Vehicle sensor abnormal
		5A	Vehicle sensor signal (AFS) abnormal
		5B	Vehicle sensor signal (AFS) ineffective
		5C	Sensor for IPA abnormal (left)
		5D	Sensor for IPA abnormal (right)
		5E	IPA communication bus abnormal
		5F	Sensor for IPA frozen (left)
		60	Sensor for IPA frozen (right)
		61	CAN reception abnormal (from ENG, ETC, EHV)
		62	CAN reception abnormal (from VSC)
		63	CAN reception abnormal (from EPS)
		64	CAN reception abnormal (from AFS)
		65	CAN reception abnormal (from EPB)
		66	CAN reception abnormal (from PAD)
		67	CAN reception abnormal (from YGS)
		68	CAN reception abnormal (from AGN)
		69	CAN transmission abnormal (message register)
		6A	CAN transmission abnormal
		6B	ENG system abnormal HV system abnormal
		6C	ENGTS mode in process judgment
		6D	IPA -> ENG communication normal/abnormal judgment
		6E	Brake system abnormal
		6F	Wheel speed sensor ineffective
		70	IPA -> VSC communication abnormal
		6F	VSCTS mode in process or brake hydraulic ineffective
		71	EPS system abnormal
		72	EPS system ineffective state
		73	IPA -> EPS communication abnormal
		74	VGRS system ineffective
		75	Buzzer abnormal
		76	EPB abnormal
		77	Outside air temperature sensor abnormal
		7A	Back camera constant writing not done
		7D	Left and right maximum steering angle writing not done
		7E	Vehicle height sensor zero point writing not done
		7F	G sensor zero point writing not done
		80	G sensor abnormal
		81	G sensor ineffective
		82	Outside air temperature display data not fixed

Logical address name	Logical address	Diagnosis code	Diagnosis details
ETC	87H	0A	Self diagnosis error
		0B	SAM error
		0C	On-vehicle device registration information error
		42	DSRC certification error
		43	DSRC command error
		44	Communication without card inserted
		61	RF module abnormal
		62	Antenna disconnection (history)
		71	Card error
		72	Card certification error
		81	Setup not done
		A1	Antenna disconnection (current status)
REC	9EH	40	Extension device error (DSP abnormal)
		41	Recording data overflow
MAYDAY	A0H	41	Telephone module defective
		42	Transceiver not connected
		43	White ROM/TEL no number
		44	Modem defective
		45	Auto maintenance call not established
		51	Main battery voltage low
		52	Auxiliary battery voltage low
		53	Auxiliary battery usage time over
		61	BEAN module defective
		62	Air bag life signal stopped
		63	Air bag sensor abnormal
		71	Communication error
		72	Position data no response
		73	Navigation system abnormal
		74	Position data ineffective
		91	Microcomputer internal ROM defective
		92	Microcomputer internal RAM defective
		93	External ROM defective
		94	External RAM defective
		95	EEPROM defective
		A1	Notification button disconnection
		A2	Notification button short
		B1	Fault in DSP abnormal control
		B2	RTC control fault
		B3	Fault in audio composition LSI control
		B4	PROM writing fault
		B5	SIO G. A abnormal

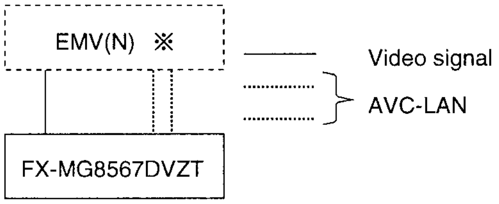
Communi -cation control	01H	D0	Device not connected
		D1	Transmission abnormal
		D2	Periodical communication no response
		D4	Periodical communication abnormal
		FF	Diagnostic no respose
Communi -cation module	8EH	31	ID information abnormal
		32	Communication unit no response
		40	No antenna connected

6.2 TEST MODE

●MG4 Test Mode

Note) Mount the MG4 mechanism assembly on FX-MG8567DVZT before performing this test mode.

1. System Configuration


EMV(N) ※
FX-MG8567DVZT
Video signal
AVC-LAN

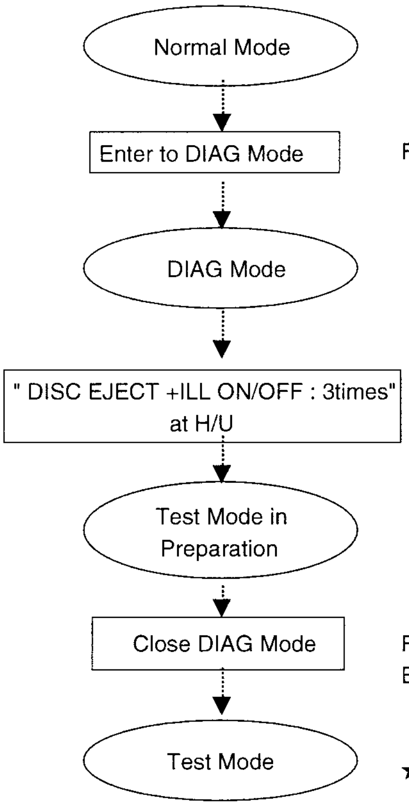
※Not needed, FX-MG8567DVZT has an LCD.

<<Note>>

You can operate only MG4 test mode functions on FX-MG8567DVZT without EMV(N).
but no DVD's normal functions.
If you want to check DVD's normal function operation, be sure to connect EMV(N).

We checked that we can operate normal mode, when EMV(N) of 05GS was connected.

2. Operation Specification


Normal Mode
Enter to DIAG Mode
DIAG Mode
" DISC EJECT +ILL ON/OFF : 3times" at H/U
Test Mode in Preparation
Close DIAG Mode
Test Mode

For operation of "Enter to DIAG Mode", see "2-1. DIAG Mode".

FX-MG8567DVZT: Press DISC button for 2 seconds.
EMV (N) : Press and hold the Image Quality/Erase button for 2 seconds.

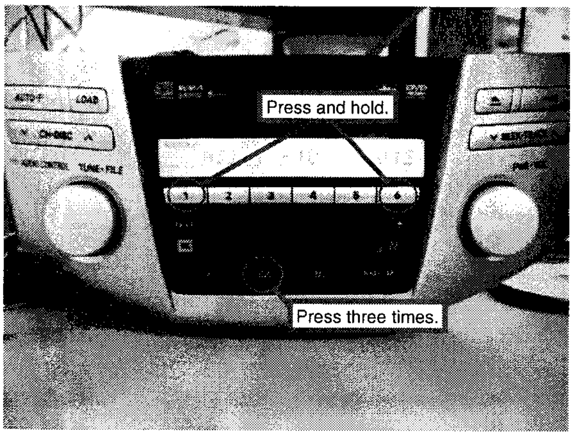
★Press DISC button, when the source is no CD.

2-1.DIAG Mode

[System without EMV (N)]

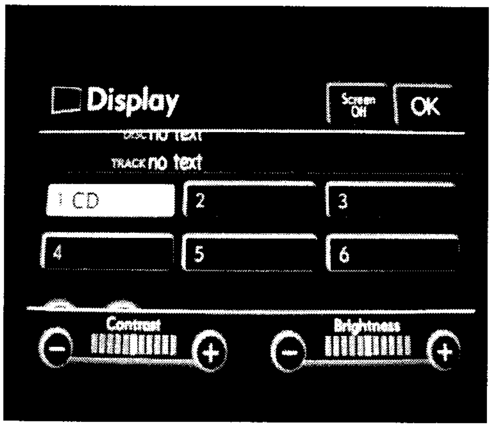
1. Press [DISC]

button three times, while holding the [1] and [6] buttons (see the picture below).


Press and hold.
Press three times.

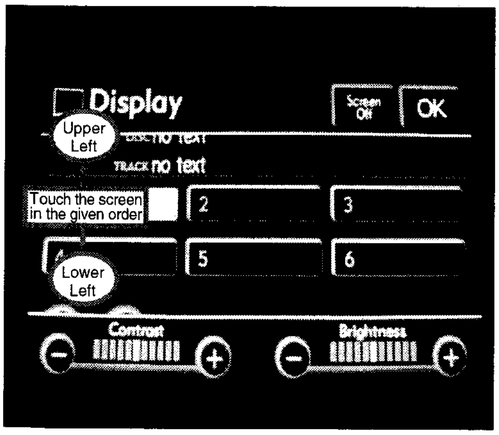
[System with EMV(N)]

1. Press [Image Quality/Erase] button of the EMV(N) to display the Image Quality Adjustment Screen (see the picture below).


Display
Screen Off
OK
DISC no text
TRACK no text
1 CD
2
3
4
5
6
Contrast
Brightness

Note) This screen is different from the actual screen.
Manipulate in accordance with your screen.

2. Touch inside of the framework on the Image Quality Adjustment Screen in the following order:
Upper Left -> Lower Left ->Upper Left -> Lower Left ->Upper Left -> Lower Left (see the picture below).

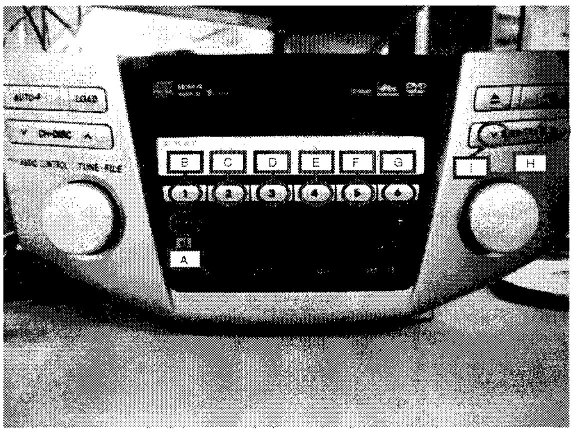

Display
Screen Off
OK
Upper Left
TRACK no text
Touch the screen in the given order
2
3
5
6
Lower Left
Contrast
Brightness

3. Operation Buttons

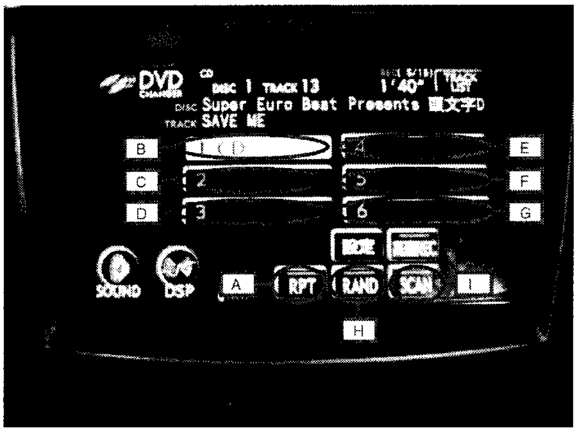
In the Test Mode for service of MG4, the following buttons are used for implementation of different tests.

Drawing No	Button		Application
	FX-MG8567DVZT	EMV(N)	
A	TEXT	RPT	Command for Test Mode : EJECT
B	1	DISC1	Command for Test Mode :①
C	2	DISC2	Command for Test Mode :②
D	3	DISC3	Command for Test Mode :③
E	4	DISC4	Command for Test Mode :④
F	5	DISC5	Command for Test Mode :⑤
G	6	DISC6	Command for Test Mode :⑥
H	TRACK UP	RAND	Command for Test Mode :⑦
I	TRACK DOWN	SCAN	Command for Test Mode :⑧

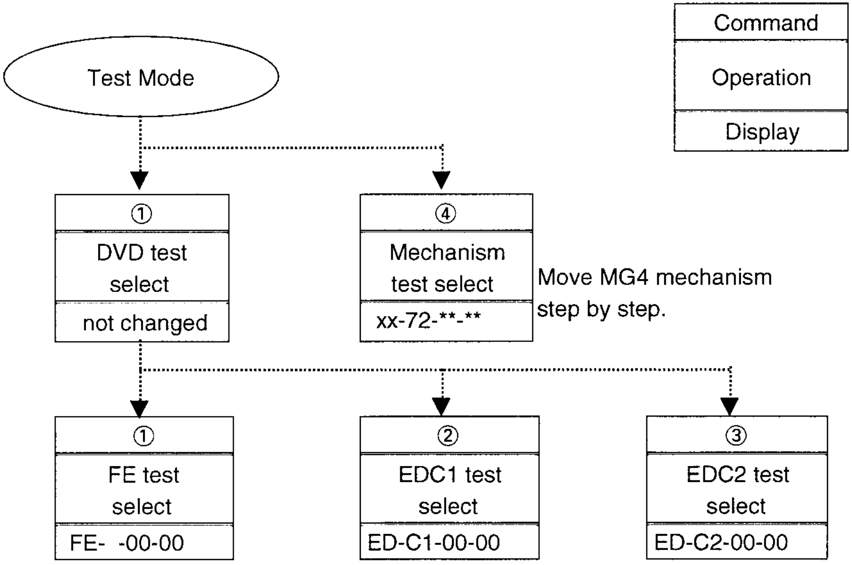
• FX-MG8567DVZT



• EMV(N)


DVD
DISC 1 TRACK 13
1'40"
Super Euro Beat Presents
SAVE ME
B
C
D
E
F
G
SOUND
DISP
A
RPT
RAND
SCAN
I
H

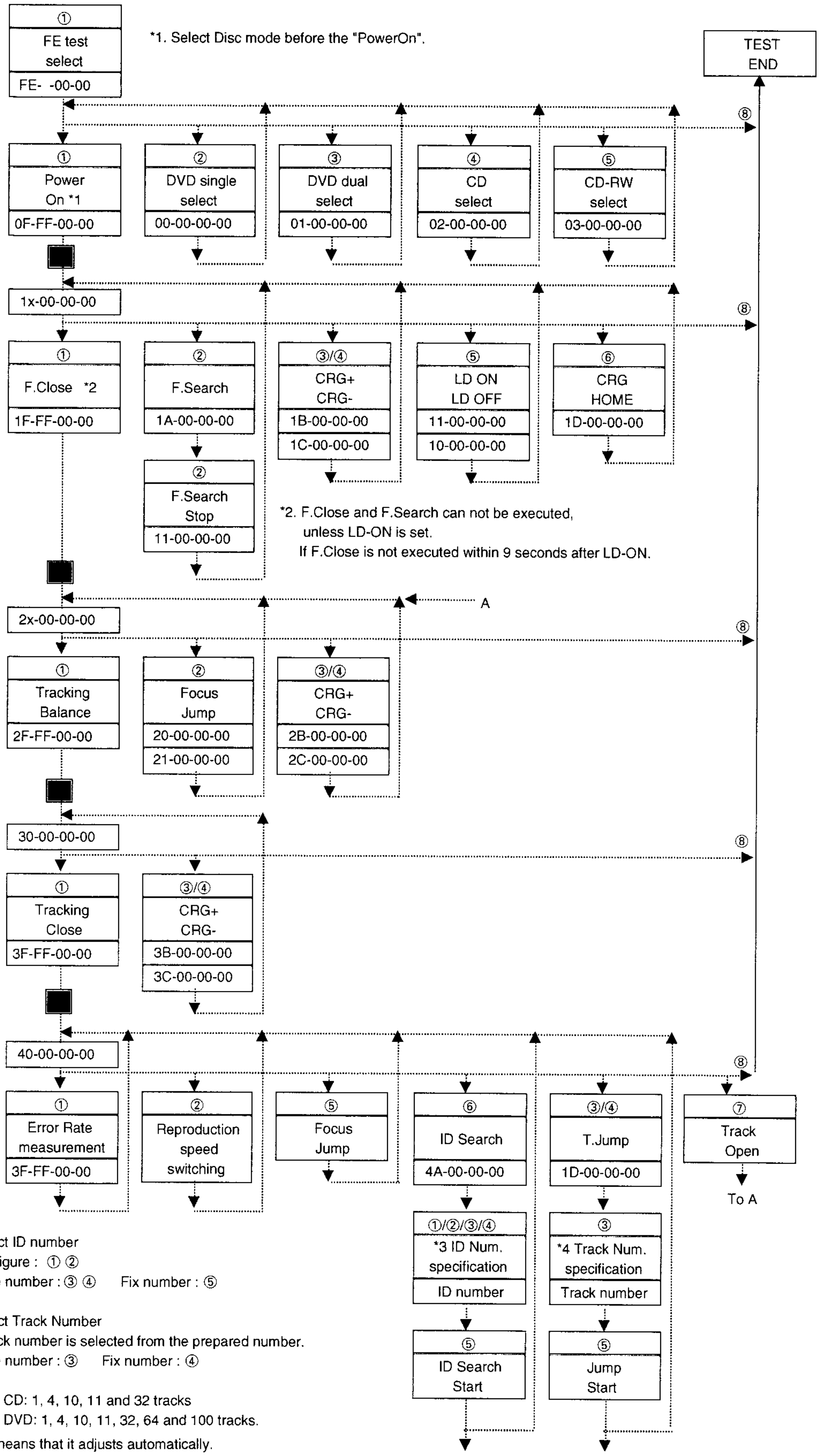
4. Test Mode


Command
Operation
Display
Test Mode
①
DVD test select
not changed
④
Mechanism test select
xx-72-**-**
Move MG4 mechanism step by step.
①
FE test select
FE- -00-00
②
EDC1 test select
ED-C1-00-00
③
EDC2 test select
ED-C2-00-00

Move sequence of PLAY step by step.

Note) When you turn off Acc in a static test mode, please be sure to check that the mechanism has stopped. When you select the other test mode, please enter test mode again.

● Front-End test mode flow chart


①
FE test select
FE- -00-00
TEST END
⑧
①
Power On *1
0F-FF-00-00
②
DVD single select
00-00-00-00
③
DVD dual select
01-00-00-00
④
CD select
02-00-00-00
⑤
CD-RW select
03-00-00-00
1x-00-00-00
⑧
①
F.Close *2
1F-FF-00-00
②
F.Search
1A-00-00-00
②
F.Search Stop
11-00-00-00
③/④
CRG+
CRG-
1B-00-00-00
1C-00-00-00
⑤
LD ON
LD OFF
11-00-00-00
10-00-00-00
⑥
CRG HOME
1D-00-00-00
A
2x-00-00-00
⑧
①
Tracking Balance
2F-FF-00-00
②
Focus Jump
20-00-00-00
21-00-00-00
③/④
CRG+
CRG-
2B-00-00-00
2C-00-00-00
30-00-00-00
⑧
①
Tracking Close
3F-FF-00-00
③/④
CRG+
CRG-
3B-00-00-00
3C-00-00-00
40-00-00-00
⑧
①
Error Rate measurement
3F-FF-00-00
②
Reproduction speed switching
⑤
Focus Jump
⑥
ID Search
4A-00-00-00
①/②/③/④
*3 ID Num. specification
ID number
⑤
ID Search Start
③/④
T.Jump
1D-00-00-00
③
*4 Track Num. specification
Track number
⑤
Jump Start
⑦
Track Open
To A

*1. Select Disc mode before the "PowerOn".

*2. F.Close and F.Search can not be executed, unless LD-ON is set.
If F.Close is not executed within 9 seconds after LD-ON.

*3. Select ID number
Select figure : ① ②
Change number : ③ ④ Fix number : ⑤

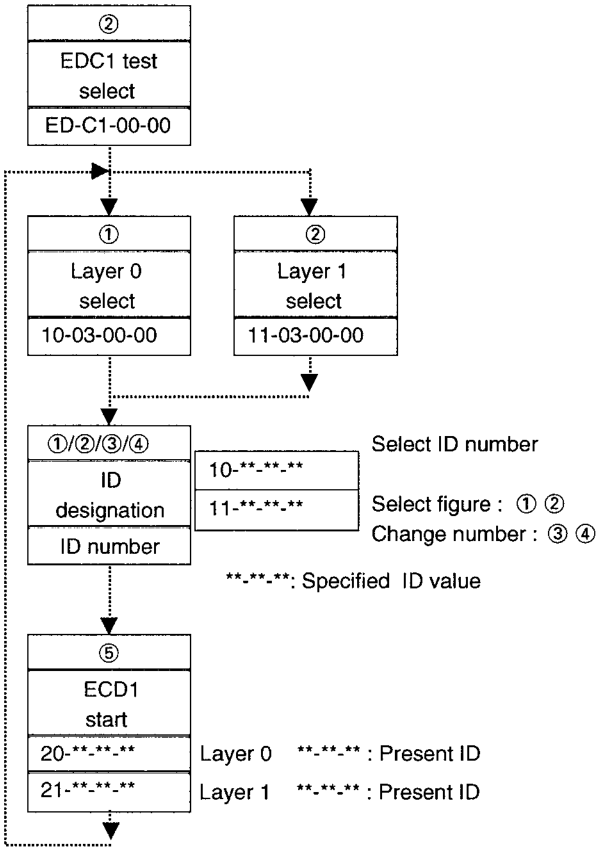
*4. Select Track Number
The track number is selected from the prepared number.
Change number : ③ Fix number : ④

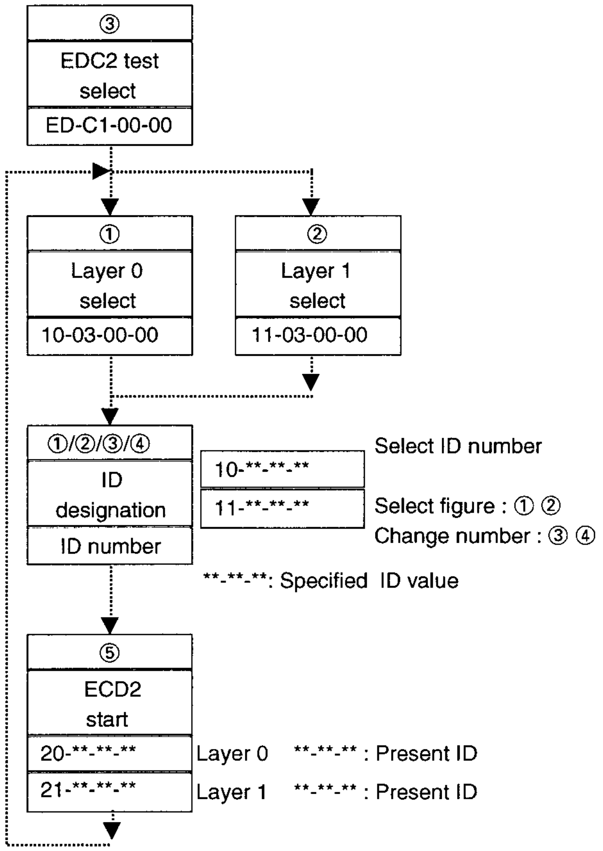
For CD: 1, 4, 10, 11 and 32 tracks
For DVD: 1, 4, 10, 11, 32, 64 and 100 tracks.

■ means that it adjusts automatically.

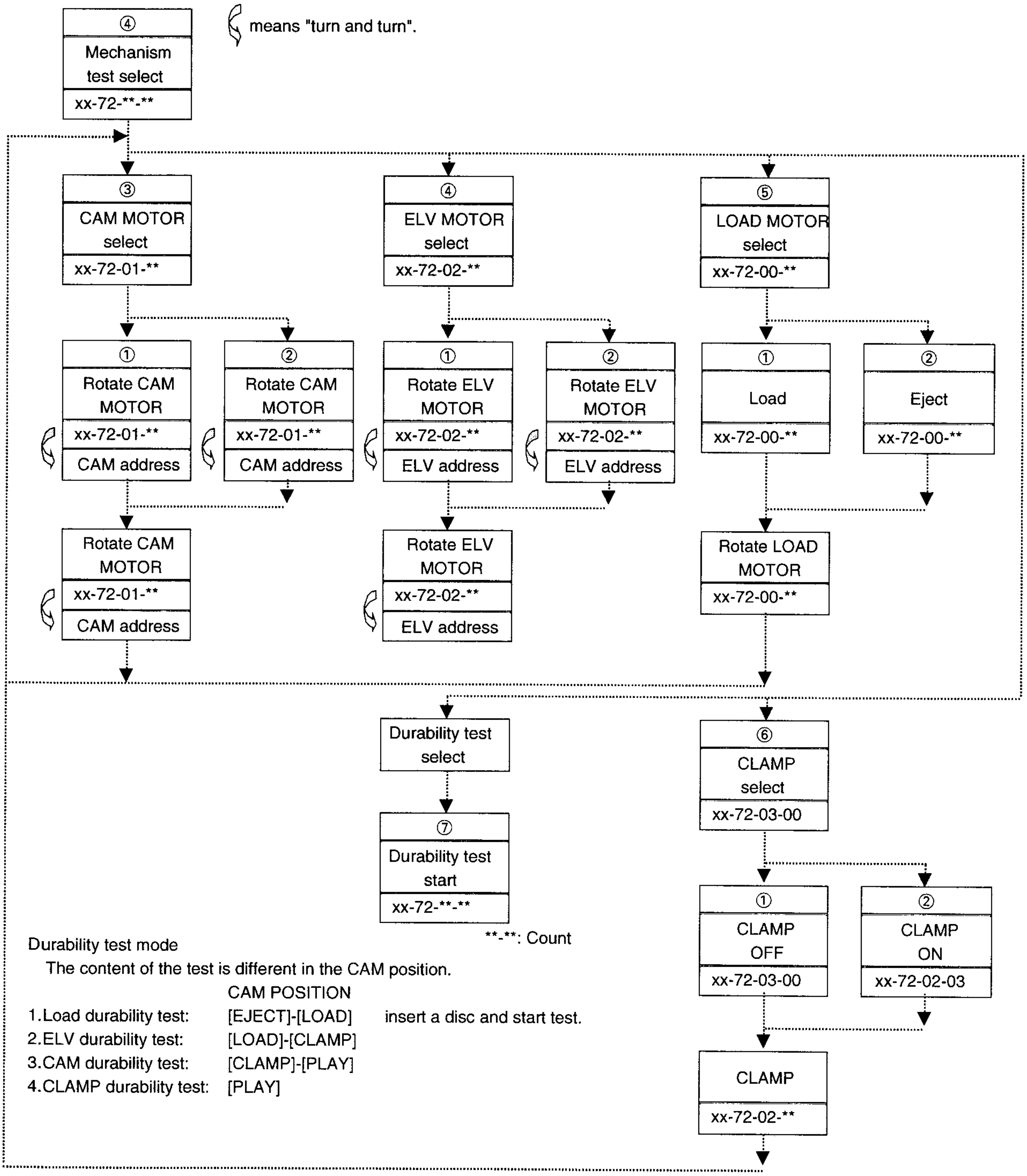
●EDC1/EDC2 test mode flow chart

If you stop the EDC test mode, please turn off ACC and B+ at the same time.


②
EDC1 test select
ED-C1-00-00
①
Layer 0 select
10-03-00-00
②
Layer 1 select
11-03-00-00
①/②/③/④
ID designation
ID number
10-**-**-**
11-**-**-**
Select ID number
Select figure : ① ②
Change number : ③ ④
--**: Specified ID value
⑤
ECD1 start
20-**-**-**
21-**-**-**
Layer 0 **-**-** : Present ID
Layer 1 **-**-** : Present ID


③
EDC2 test select
ED-C1-00-00
①
Layer 0 select
10-03-00-00
②
Layer 1 select
11-03-00-00
①/②/③/④
ID designation
ID number
10-**-**-**
11-**-**-**
Select ID number
Select figure : ① ②
Change number : ③ ④
--**: Specified ID value
⑤
ECD2 start
20-**-**-**
21-**-**-**
Layer 0 **-**-** : Present ID
Layer 1 **-**-** : Present ID

● Mechanism test mode flow chart

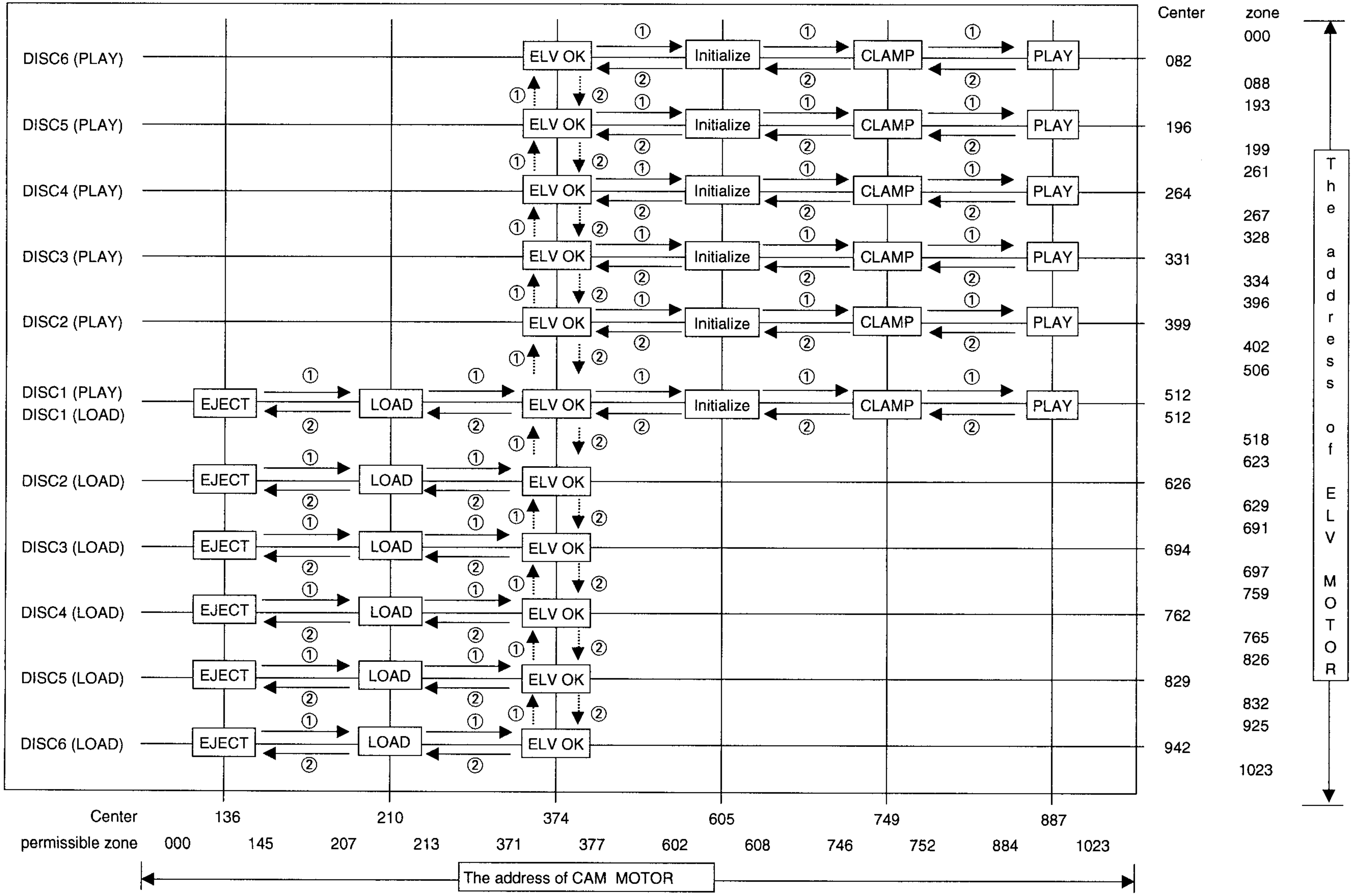

means "turn and turn".
④ Mechanism test select xx-72-**-**
③ CAM MOTOR select xx-72-01-**
④ ELV MOTOR select xx-72-02-**
⑤ LOAD MOTOR select xx-72-00-**
① Rotate CAM MOTOR xx-72-01-** CAM address
② Rotate CAM MOTOR xx-72-01-** CAM address
① Rotate ELV MOTOR xx-72-02-** ELV address
② Rotate ELV MOTOR xx-72-02-** ELV address
① Load xx-72-00-**
② Eject xx-72-00-**
Rotate CAM MOTOR xx-72-01-** CAM address
Rotate ELV MOTOR xx-72-02-** ELV address
Rotate LOAD MOTOR xx-72-00-**
Durability test select
⑦ Durability test start xx-72-**-**
-: Count
⑥ CLAMP select xx-72-03-00
① CLAMP OFF xx-72-03-00
② CLAMP ON xx-72-02-03
CLAMP xx-72-02-**

Durability test mode

The content of the test is different in the CAM position.

	CAM POSITION	
1.Load durability test:	[EJECT]-[LOAD]	insert a disc and start test.
2.ELV durability test:	[LOAD]-[CLAMP]	
3.CAM durability test:	[CLAMP]-[PLAY]	
4.CLAMP durability test:	[PLAY]	

●Position Information


DISC6 (PLAY)
DISC5 (PLAY)
DISC4 (PLAY)
DISC3 (PLAY)
DISC2 (PLAY)
DISC1 (PLAY)
DISC1 (LOAD)
DISC2 (LOAD)
DISC3 (LOAD)
DISC4 (LOAD)
DISC5 (LOAD)
DISC6 (LOAD)
EJECT
LOAD
ELV OK
Initialize
CLAMP
PLAY
①
②
Center
permissible zone
136
210
374
605
749
887
000
145
207
213
371
377
602
608
746
752
884
1023
The address of CAM MOTOR
Center
permissible zone
082
196
264
331
399
512
512
626
694
762
829
942
000
088
193
199
261
267
328
334
396
402
506
518
623
629
691
697
759
765
826
832
925
1023
The address of ELV MOTOR

6.3 FUNCTION

--FE Test Mode--

*Error rate measurement
Disc in use: GGV1025 (no scratch or stain) / STD-905 (no scratch or stain)
It is possible to check the detect on the mechanism module by measuring error rate of DVD disc and CD disc.

By following the procedures of operating the service manual, set a Tracking Close state in the FE (Front End) test mode.
In case of DVD, select a measurement point by operating "ID Search" and measure an error rate with "Error Rate Measurement."
Also, as per mid- and outer circumferences, move a measuring point by operating "ID Search" for measurement.

In case of CD, since a measuring point must be moved visually, set a Tracking Open state once and rotate the carriage motor until it reaches the measuring point. Then, set a Tracking Close and measure an error rate by "Error Rate Measurement.
"Also, as per mid- and outer circumferences, move in the same manner for measurement.

--Mecha Test Mode--
Among the mecha-system test modes, 4 types of endurance test mode can be executed at the position of the rotary position sensor.

*Load durability Test (Elevation motor)
Insertion and ejection of disc can be operated repeatedly and only the disc loading operation can be confirmed. It can also be used for the aging upon the replacement of parts.

By following the procedures of operating the service manual, set a "CAM MOTOR Select" mode in the mechanism test mode.
Rotate CAM gear motor to the "CAM ELV direction" until the position of "000-206."
Shift the durability mode (by executing Command (7) for Test) and insert a disc for the startup.

*ELV durability Test (Elevation motor)
The vertical movement of Stage Assy can be operated repeatedly and the failure of vertical action can be confirmed.
It can also be used for the aging upon the replacement of parts.

By following the procedures of operating the service manual, set a "CAM MOTOR Select" mode in the mechanism test mode.
Rotate CAM gear motor to the "CAM ELV direction" until the position of "371-377."
(The default value upon inserting the mecha test mode is "371-377.")
Shift the durability mode (by executing Command (7) for Test) for the startup.

*CAM durability Test (CAM Gear motor)
The rotating action of a Carriage Mecha Assy can be operated repeatedly and the failure of the rotating action for Carriage Mecha Assy can be confirmed.
It can also be used for the aging upon the replacement of parts.

By following the procedures of operating the service manual, set a "CAM MOTOR Select" mode in the mechanism test mode.
Rotate CAM gear motor to the "CAM ELV direction" until the position of "378-745."
Shift the durability mode (by executing Command (7) for Test) for the startup.

*CLAMP durability Test (Carriage motor)
The clamp action (opening and shutting claw inside the disc tray) can be operated repeatedly and the failure of clamp action as well as pick-up movement action can be confirmed.
It can also be used for the aging upon the replacement of parts.

By following the procedures of operating the service manual, set a "CAM MOTOR Select" mode in the mechanism test mode.
Rotate CAM gear motor to the "CAM ELV direction" until the position of "746-1023."
Shift the durability mode (by executing Command (7) for Test) for the startup.

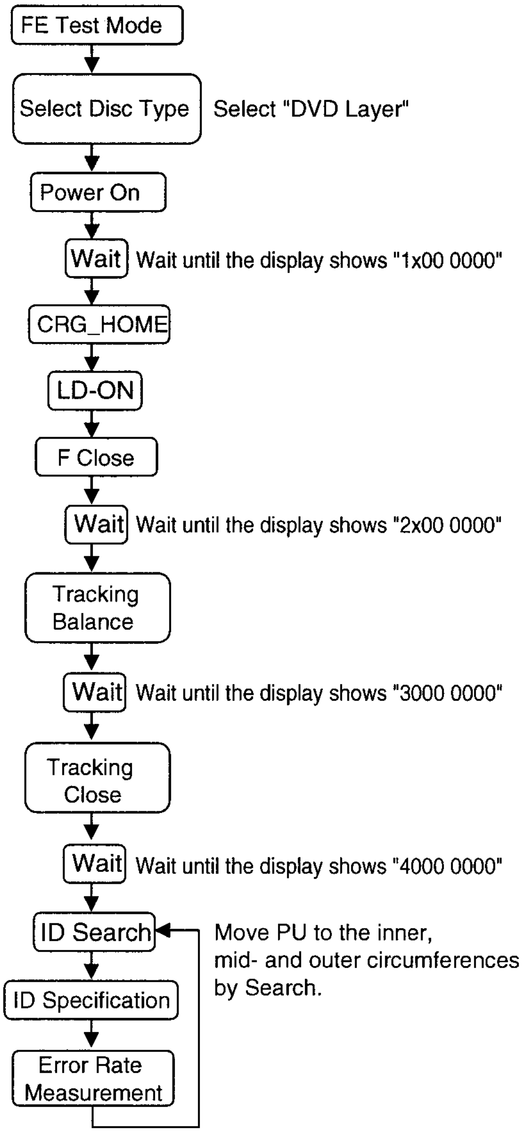
<<Cautions>>
DO NOT operate at any position other than that of "EJECT", "LOAD", "ELVOK", "Initialize", "CLAMP" and "PLAY" inside "Position Information", as it may cause damage on the mechanism module.

When ending the FE test mode, make sure to send Command (8) for Test and confirm the shift to TESTEND before turning off the ACC.

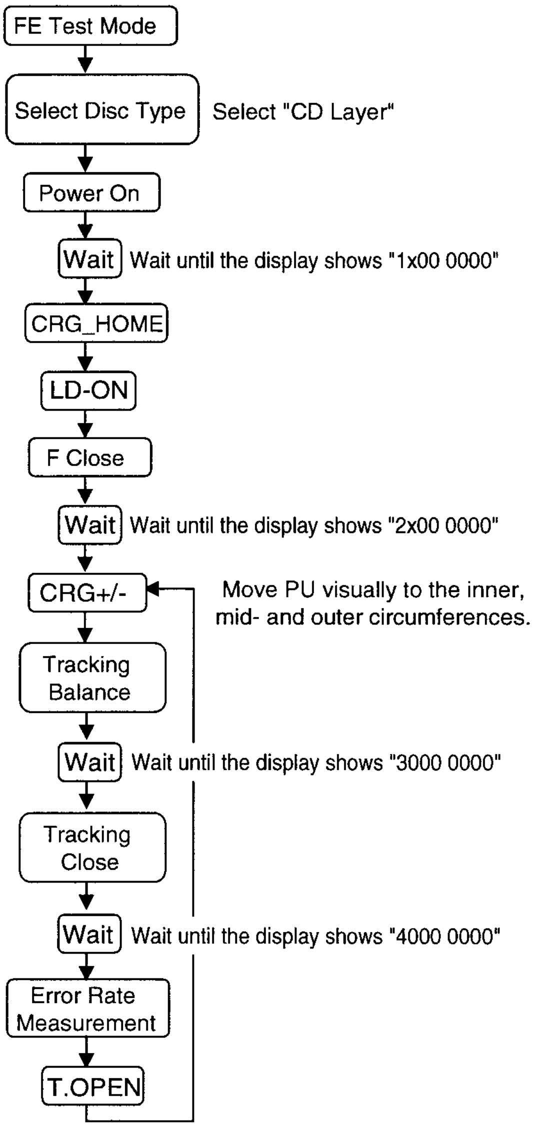
6.4 ERROR RATE MEASUREMENT

Method of Error Rate Measurement
A test mode mounted on the product is used for the error rate measurement.
Follow the procedures described below:

Procedures: In case of DVD


FE Test Mode
Select Disc Type
Select "DVD Layer"
Power On
Wait
Wait until the display shows "1x00 0000"
CRG_HOME
LD-ON
F Close
Wait
Wait until the display shows "2x00 0000"
Tracking Balance
Wait
Wait until the display shows "3000 0000"
Tracking Close
Wait
Wait until the display shows "4000 0000"
ID Search
Move PU to the inner, mid- and outer circumferences by Search.
ID Specification
Error Rate Measurement

Procedures: In case of CD


FE Test Mode
Select Disc Type
Select "CD Layer"
Power On
Wait
Wait until the display shows "1x00 0000"
CRG_HOME
LD-ON
F Close
Wait
Wait until the display shows "2x00 0000"
CRG+/-
Move PU visually to the inner, mid- and outer circumferences.
Tracking Balance
Wait
Wait until the display shows "3000 0000"
Tracking Close
Wait
Wait until the display shows "4000 0000"
Error Rate Measurement
T.OPEN

DVD part
*Disc in use: GGV1025 (no scratch or stain)
*Measuring points: Position of inner circumference (ID: 40000(h))
Position of mid-circumference (ID: 100000(h))
Position of outer circumference (ID: 200000(h))
*Threshold: Display 10^{-4} units

CD part
*Disc in use:STD-905 (no scratch or stain)
*Measuring points: Position (visual) of inner circumference (About 3 min.)
Position (visual) of mid-circumference (About 20 - 40 min.)
Position (visual) of outer circumference (About 60 min.)
*Threshold: Display 10^{-4} units

7. DISASSEMBLY

7.1 DISASSEMBLY

● Removing the Panel Assy (Fig.1)

1 Remove the five screws.

2 Release the two latchs and then remove the Panel Assy.

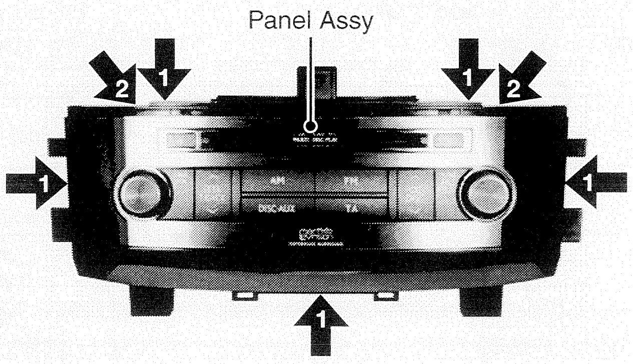

Panel Assy
1
2
1
1
2
1
1
1

Fig.1

● Removing the Frame Unit (Fig.2)

1 Remove the five screws and then remove the Frame Unit.

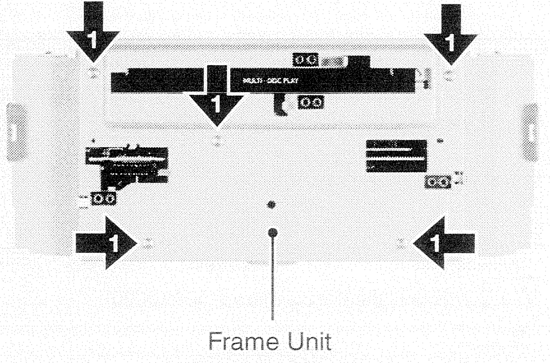
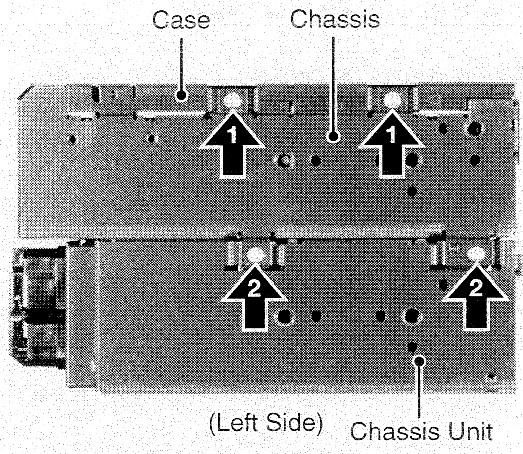

1
1
1
1
1
Frame Unit

Fig.2

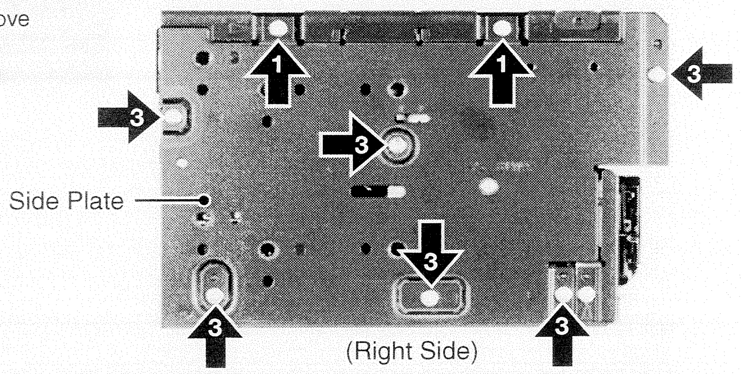
● How to Separate the Chassis (Fig. 3)

1 Remove the four screws and then remove the Case.

2 Remove the two screws.

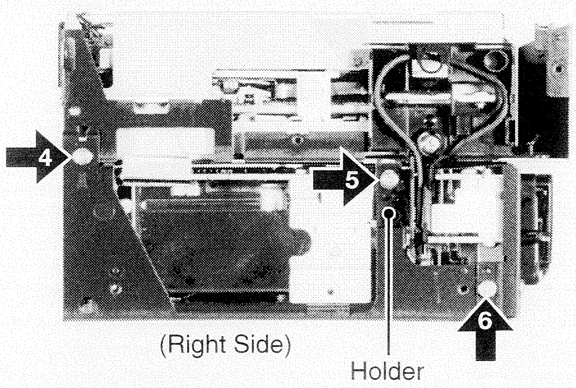

Case
Chassis
1
1
2
2
(Left Side)
Chassis Unit

3 Remove the six screws and then remove the Side Plate.


1
1
3
3
3
Side Plate
3
3
3
(Right Side)

4 Remove the screw.

5 Remove the screw and then remove the Holder.


4
5
6
(Right Side)
Holder

6 Remove the four screws and then remove the Holder.

7 Remove the screw.

8 Disconnect the connector(CN701) and then separate the Chassis Unit.

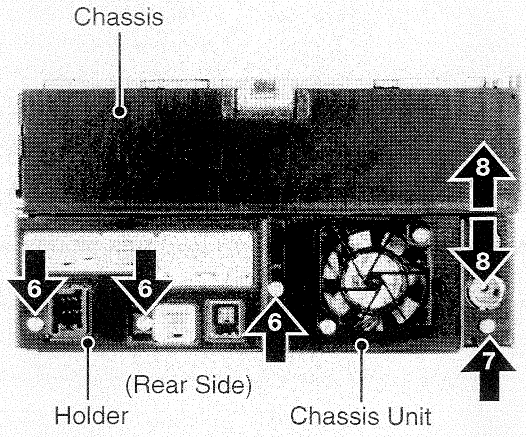

Chassis
8
8
6
6
6
7
(Rear Side)
Holder
Chassis Unit

Fig.3

● Removing the Main Unit (Fig.4)

1 Remove the two screws.

2 Straighten the tabs at three locations indicated and then disconnect the two connectors. (CN407, CN1003)

3 Remove the Main Unit.

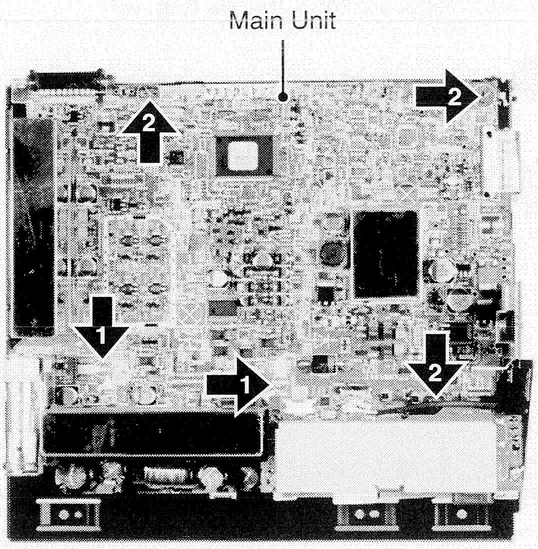


Fig.4

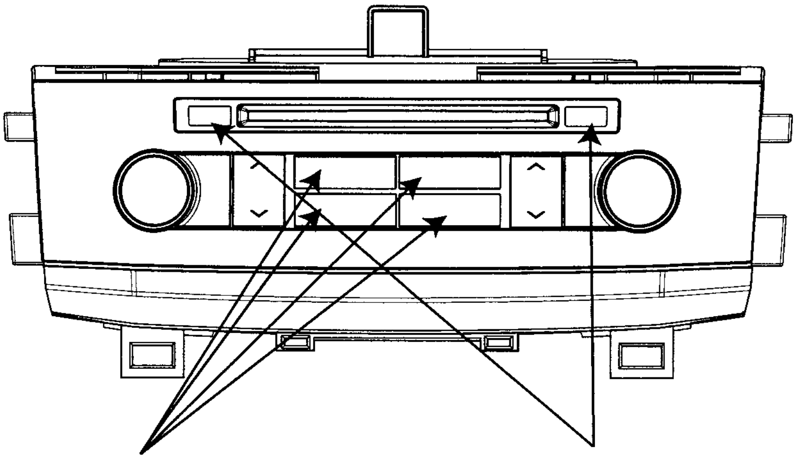
---

* Please refer to Mechanism Manual (CRT3495) for removing module part of DVD mechanism.
Three GGF1538 are necessary to build up MG4 mechanism.

- Notice for changing buttons in Front Panel
  Grease in panel when replacing buttons.
  Please refer to the following procedure.

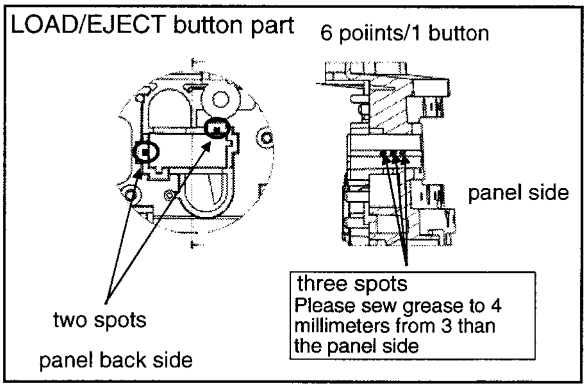
- Grease List(Jig No.)
  GGK1004 : syringe(w/o needle)
  GGL1011 : needle
  GEM1048 : Grease
  GGF1561 : Sample of Grease amount

- Procedure for applying Grease
  1. Clean off the old Grease where the bottons are installed.
  2. Install the needle in syringe and Grease in it.
  *Not to fall off the needle, install it tightly.
  3. Use the syringe and apply Grease about 2.0 mg on the spots shown in the following pictures.
  *As for the amount of Grease, refer to the sample(GGF1561).
  4. Install the buttons after applying Grease.
  Check the Grease if it is stuck out or not.
  *If the Grease is stuck out, return to Procedure Number 1.

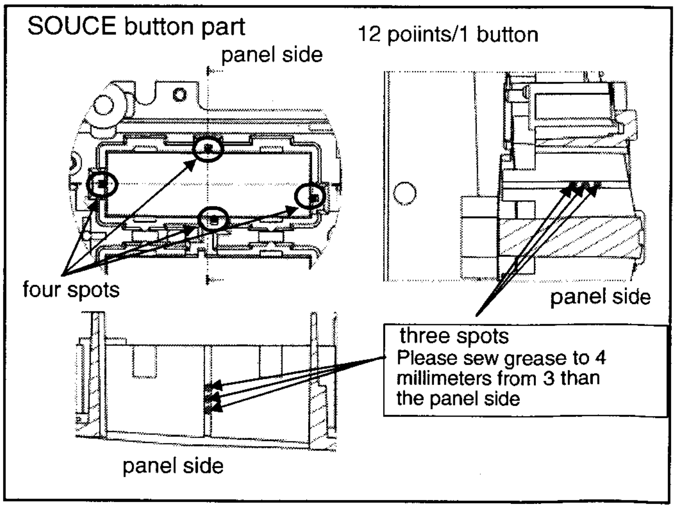


It applies to a panel part.

It applies to a button part.


LOAD/EJECT button part
6 poiints/1 button
panel side
two spots
panel back side
three spots

Please sew grease to 4 millimeters from 3 than the panel side


SOUCE button part
12 poiints/1 button
panel side
four spots
panel side
three spots
panel side

Please sew grease to 4 millimeters from 3 than the panel side

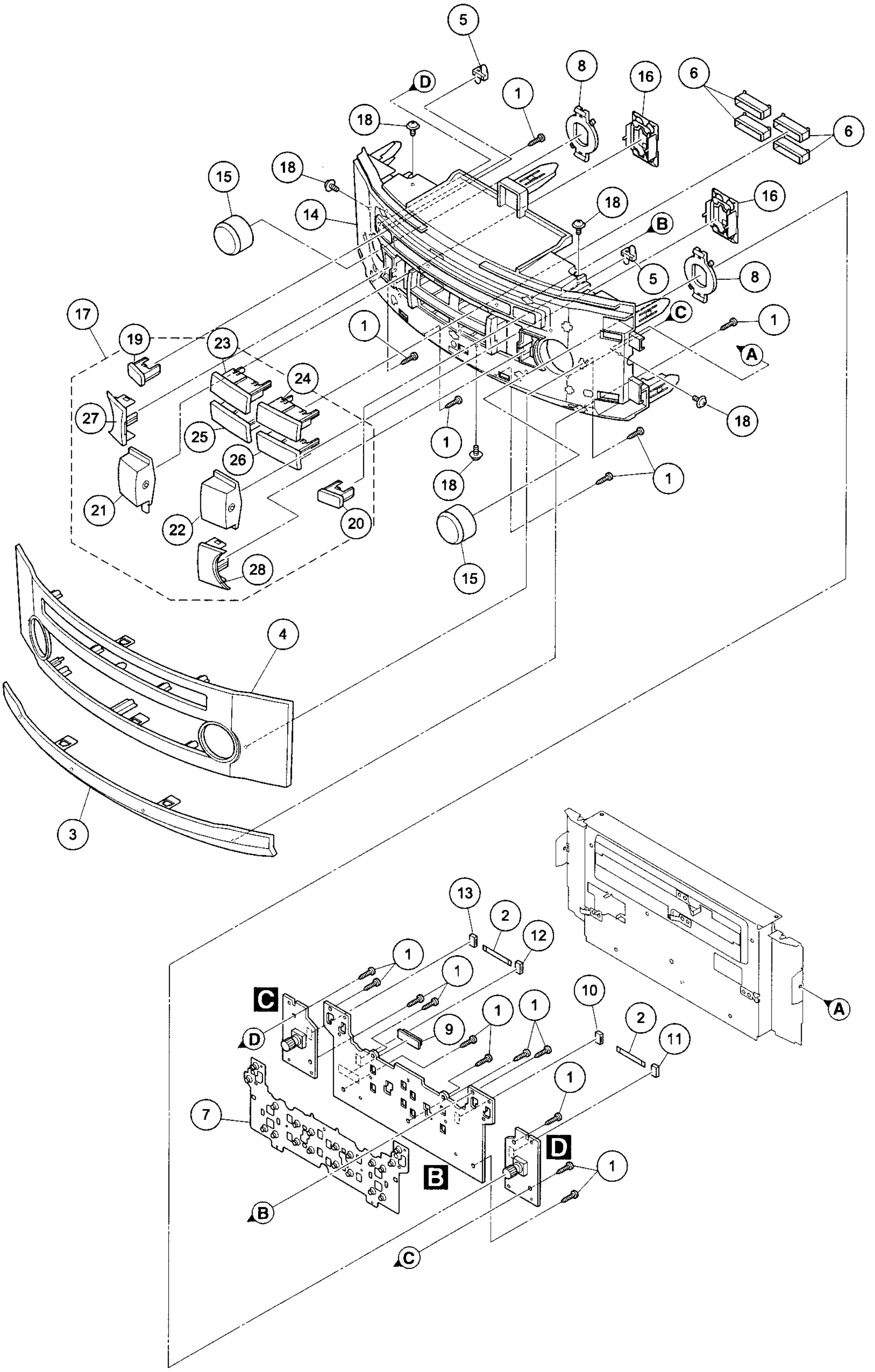
8. EACH SETTING AND ADJUSTMENT

There is no information to be shown in this chapter.

9. EXPLODED VIEWS AND PARTS LIST

NOTES :
- *Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screw adjacent to▽ mark on the product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions,apply as you think it appropriate.)*

9.1 EXTERIOR(1)


5
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25
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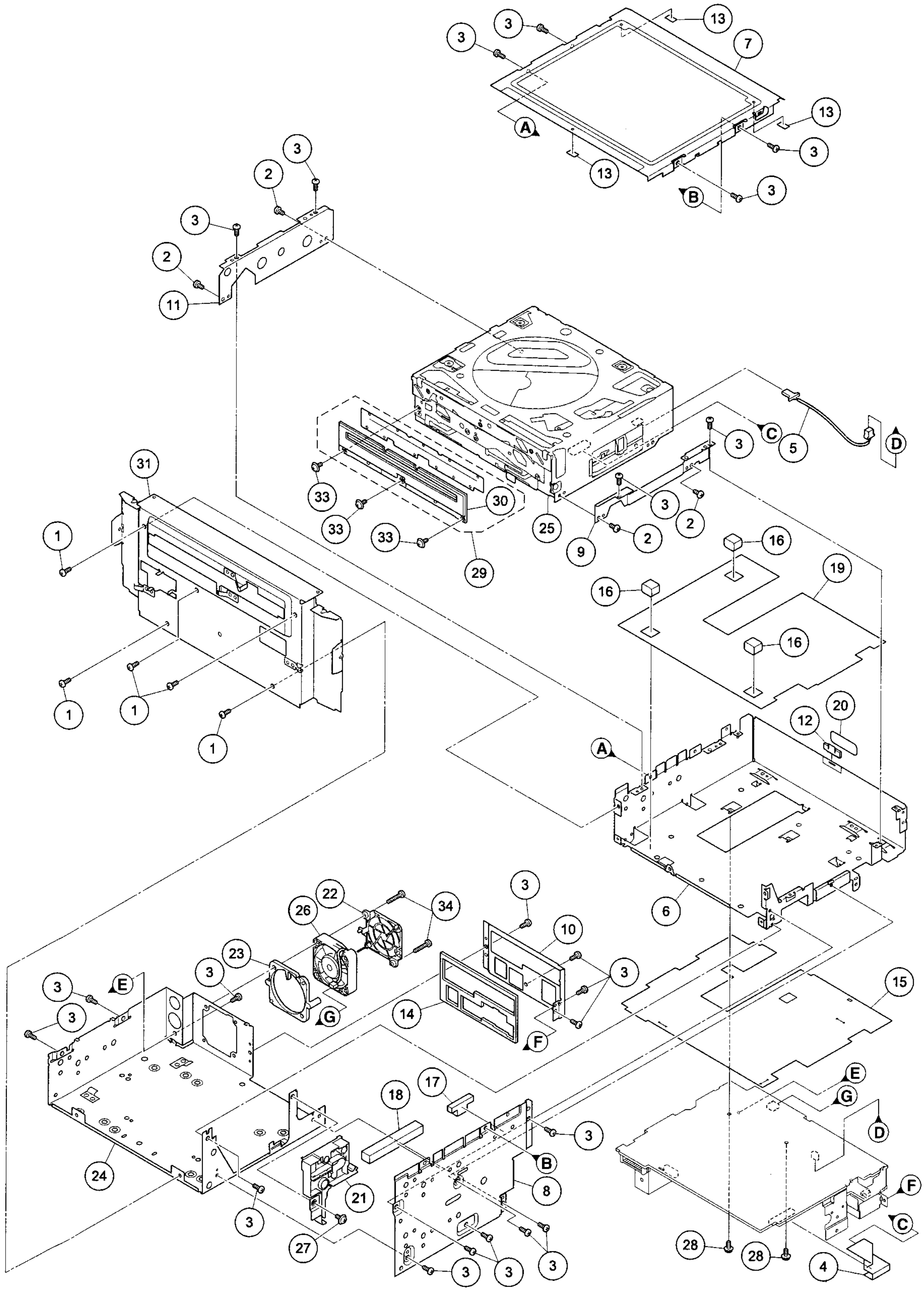
26
18
18
21
1
22
20
28
15
4
3
13
2
12
1
1
C
D
9
1
1
10
2
11
A
7
1
D
B
1
B
C

A
B
C
D
E
F

EXTERIOR(1) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BPZ20P080FTC
	2	Connector	CDE8425
	3	Panel	CNS8998
	4	Panel	CNS9141
	5	Holder	CNV9565
	6	Holder	CNV9566
	7	Rubber	CNV9567
	8	Lighting Conductor	CNV9568
	9	Connector(CN2001)	CKS4771
	10	Connector(CN2010)	CKS5542
	11	Connector(CN2011)	CKS5542
	12	Connector(CN2020)	CKS5542
	13	Connector(CN2021)	CKS5542
	14	Grille Unit	CXC7751
	15	Knob Unit	CXC7754
	16	Holder Unit	CXC7755
*	17	Button Unit	CXC8247
	18	Screw	IMS26P040FTC
	19	Button	CAI1207
	20	Button	CAI1208
	21	Button	CAI1209
	22	Button	CAI1210
	23	Button	CAI1215
	24	Button	CAI1212
	25	Button	CAI1213
	26	Button	CAI1227
	27	Plate	CNS9090
	28	Plate	CNS9091

9.2 EXTERIOR(2)


3
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11
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D
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1
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12
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A
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22
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34
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10
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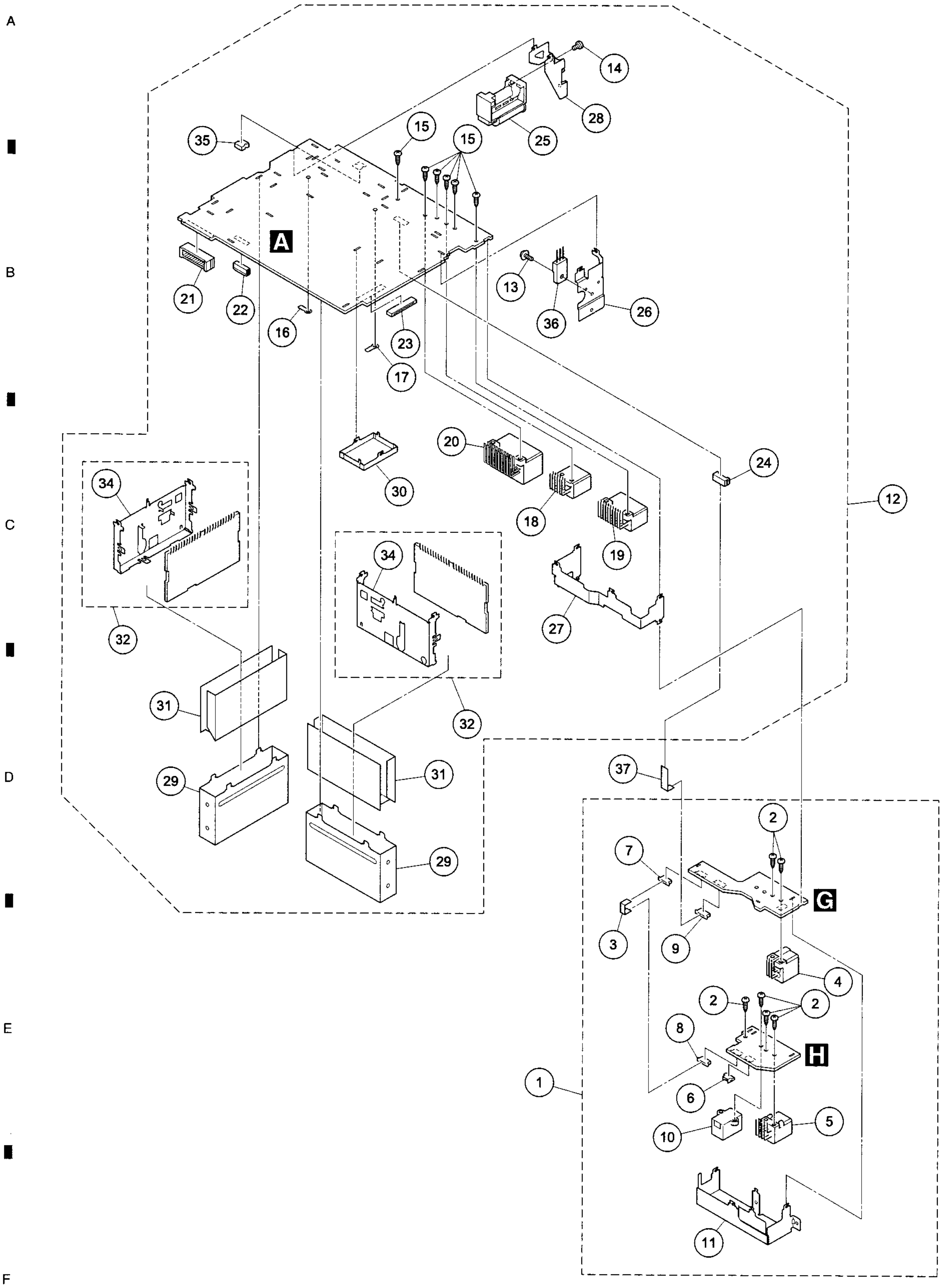
3
E
14
3
G
F
15
3
E
G
17
18
D
3
B
24
8
21
F
3
C
27
3
3
3
28
28
4

EXTERIOR(2) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BSZ26P040FTC
	2	Screw	BMZ30P040FTC
	3	Screw	BSZ26P040FTC
	4	Connector	CDE7679
	5	Cord Assy	CDE8212
	6	Chassis	CNA2923
	7	Case	CNB3049
	8	Side Plate	CNB3318
	9	Holder	CND2427
	10	Holder	CND2531
	11	Holder	CND2721
	12	Earth Plate	CND3397
	13	Cushion	CNM9507
	14	Cushion	CNM9842
	15	Insulator	CNM9843
	16	Cushion	CNM9847
	17	Cushion	CNN1205
	18	Cushion	CNN1207
	19	Insulator	CNN1216
	20	Seal	CNN1448
	21	Holder	CNV9097
	22	Holder	CNV9098
	23	Plate	CNV9099
	24	Chassis Unit	CXC6521
	25	DVD Mechanism Module(MG4)	CXX2259
	26	Fan Motor	CXM1336
	27	Screw	ISS26P050FTC
	28	Screw	PMH26P060FTC
	29	Door Unit	CXC6013
	30	Door	CAT2730
	31	Frame Unit	CXC7756
	32	•••••	
	33	Screw	IMS20P022FTC
	34	Screw(M2.6 x 18)	CBA2013

9.3 EXTERIOR(3)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G
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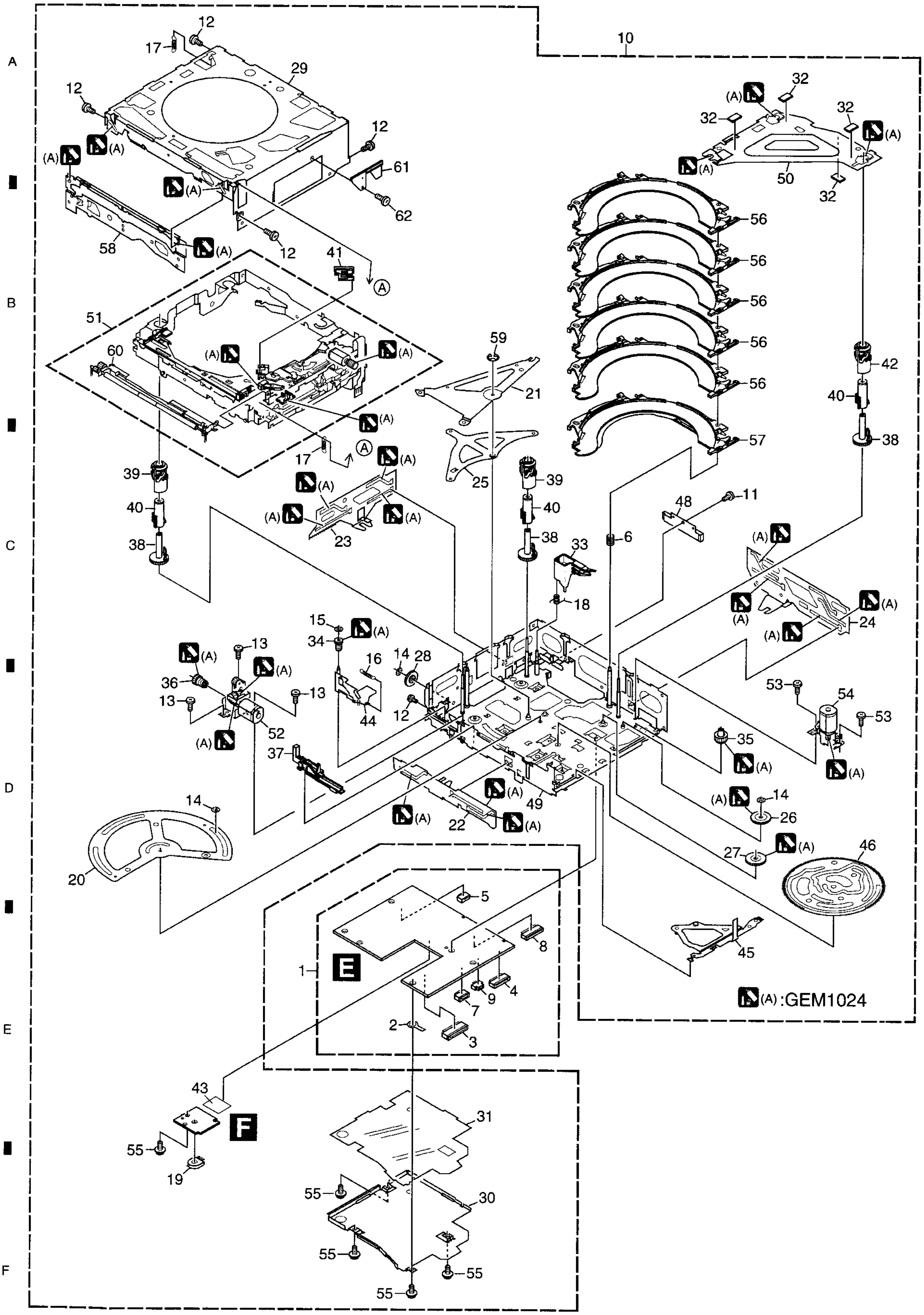
5
10
11

EXTERIOR(3) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Connector Unit	CWN2568
	2	Screw	CBA1393
	3	Connector	CDE8222
	4	Connector(CN1002)	CKM1470
	5	Connector(CN1102)	CKM1480
	6	Connector(CN1103)	CKS4822
	7	Connector(CN1005)	CKS5244
	8	Connector(CN1104)	CKS5244
	9	Connector(CN1003)	CKS5251
	10	Socket(CN1101)	CKS5316
	11	Holder	CND2433
	12	Main Unit	CWN2543
	13	Screw	ASZ26P060FTC
	14	Screw	BMZ30P040FTC
	15	Screw(M3 x 6)	CBA1393
	16	Terminal(CN101)	CKF1064
	17	Terminal(CN304)	CKF1064
	18	Connector(CN301)	CKM1466
	19	Connector(CN303)	CKM1467
	20	Connector(CN302)	CKM1469
	21	Connector(CN408)	CKS4266
	22	Connector(CN501)	CKS4853
	23	Connector(CN407)	CKS4958
	24	Connector(CN403)	CKS5279
	25	Connector(ANT11)	CKX1064
	26	Holder	CND2431
	27	Holder	CND2432
	28	Holder	CND2434
	29	Shield	CND2436
	30	Shield	CND3061
	31	Insulator	CNN1228
	32	FM/AM Tuner Unit	CWE1849
	33	•••••	
	34	Holder	CND2144
	35	ZH Connector 2P(CN701)	VKN1940
	36	Transistor (Q755)	2SB1185
	37	Connector	CDE7686

9.4 DVD MECHANISM MODULE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(A) :GEM1024
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55

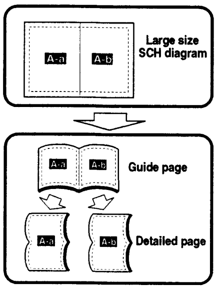
DVD MECHANISM MODULE SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DVD Core Unit	CWX3543
	2	Terminal(CN1902)	CKF1064
	3	Connector(CN1901)	CKS5054
	4	Connector(CN1201)	CKS5667
	5	Connector(CN1903)	CKS4374
	6	Spring	CBH2950
	7	Connector(CN1881)	CKS5038
	8	Connector(CN1101)	CKS4842
	9	Connector(CN1551)	CKS4817
	10	Mechanism Unit(Service)	CXX2260
	11	Screw	BMZ20P025FTC
	12	Screw(M2 x 2.5)	CBA1623
	13	Screw(M2 x 2.5)	CBA1823
	14	Washer	CBF1064
	15	Washer	CBF1094
	16	Spring	CBH2720
	17	Spring	CBH2731
	18	Spring	CBH2732
	19	Variable Resistor(VR13)	CCW1029
*	20	Gear	CND1924
*	21	Arm	CND3709
	22	Stair	CND1930
	23	Stair	CND1931
	24	Stair	CND1932
*	25	Arm	CND1933
*	26	Gear	CND1936
*	27	Gear	CND1937
	28	Gear	CND1939
	29	Case	CND3597
	30	Plate	CND3105
	31	Sheet	CNM9746
	32	Sheet	CNM9680
	33	Arm	CNV9327
	34	Gear	CNV8944
	35	Gear	CNV7854
	36	Gear	CNV8945
	37	Holder	CNV7861
	38	Cam	CNV7866
	39	Cam	CNV8778
	40	Cam	CNV7868
	41	Arm	CNV7869
	42	Cam	CNV8779
	43	Compound PCB	CNX5208
*	44	Lever Unit	CXC2392
*	45	Lever Unit	CXC2393
*	46	Cam Gear Unit	CXC2435
	47	•••••	
	48	PCB Assy	CXC3142
*	49	Chassis Unit	CXC6900
	50	Holder Unit	CXC2418
	51	Stage Assy(Service)	CXX2261
	52	ELV Motor Assy(M2)	CXC5910
	53	Screw	JFZ20P020FTC
	54	Cam Motor Assy(M1)	CXC5908
	55	Screw	IMS26P025FTC
	56	Tray Assy	CXC6726
	57	Lower Tray Assy	CXC6780
	58	Shutter Assy	CXC5126
	59	Washer	YE15FTC
	60	Load Arm Assy	CXC7482
	61	Spring	CBL1728
	62	Screw(M2 x 1.4)	CBA2025

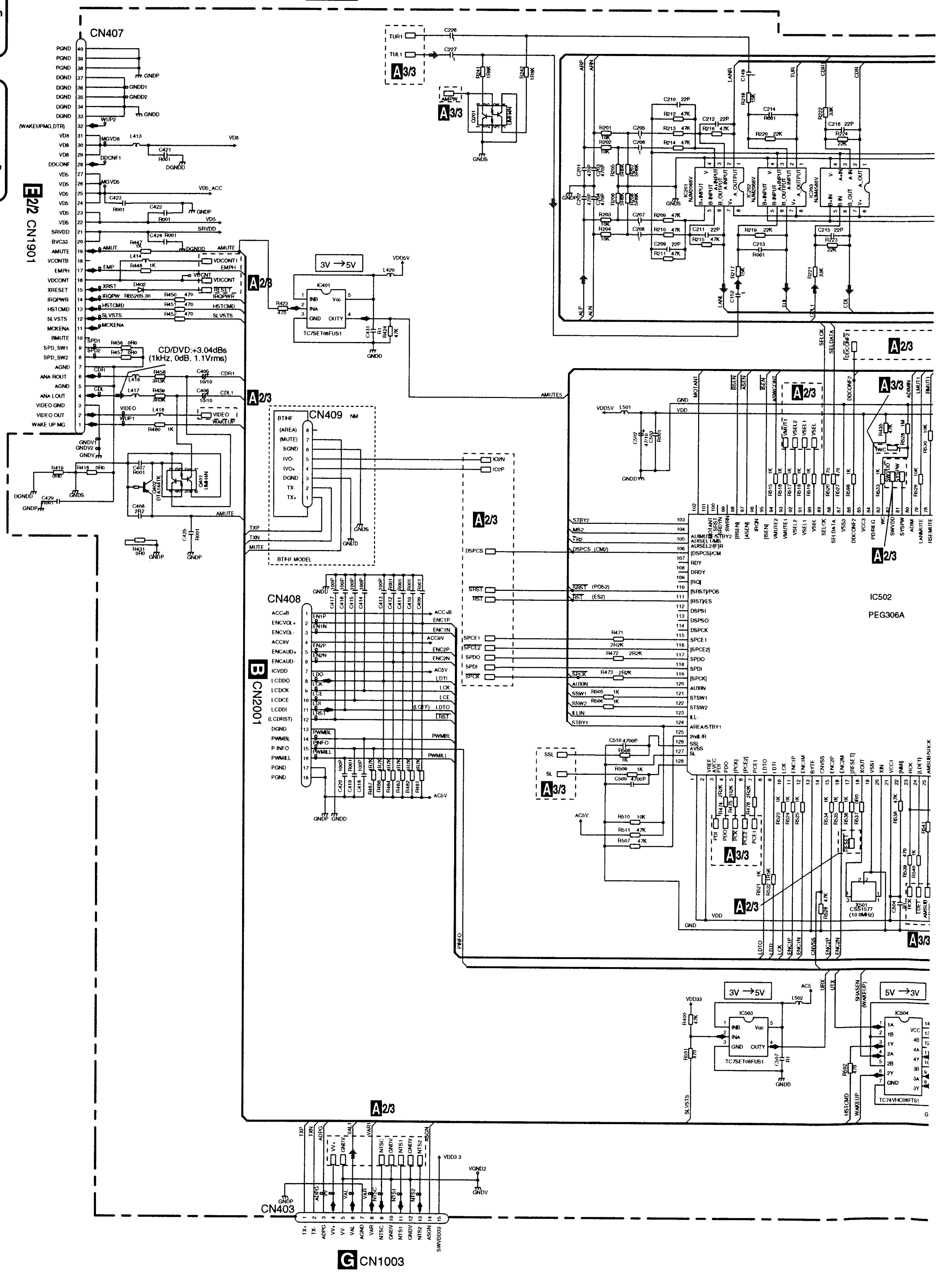
10. SCHEMATIC DIAGRAM

10.1 MAIN UNIT(1/3)(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

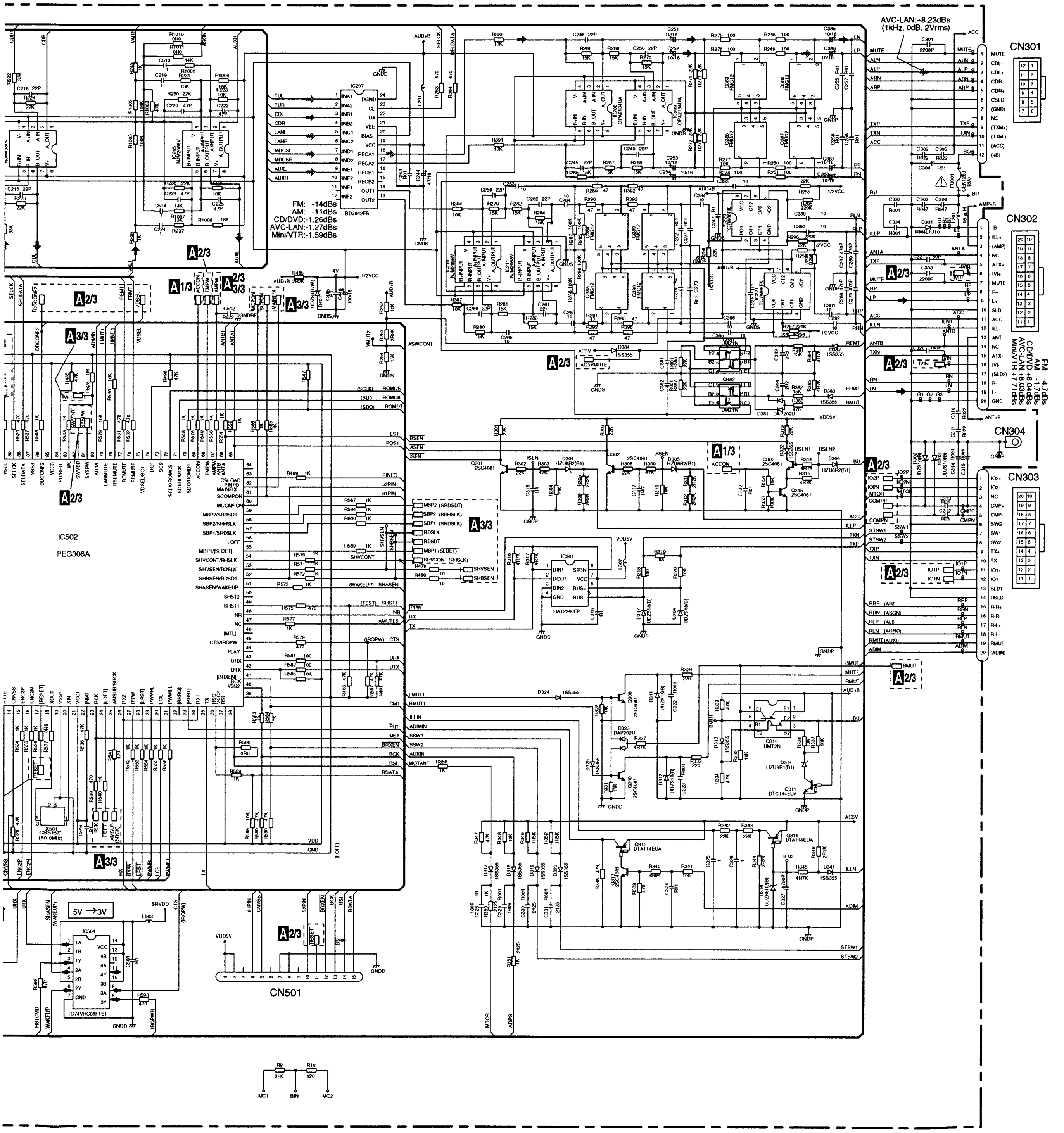

A-a
A-b
Large size SCH diagram
A-a
A-b
Guide page
A-a
A-b
Detailed page

A-a 1/3


CN407
E 2/2 CN1901
PGND
DGND
VD8
DDCONF
VD5
SRVDD
BVC33
AMUTE
VCONTB
EMPH
VDCONT
XRESET
IRQPWR
HSTCMD
SLVSTS
MCKENA
BMUTE
SPD_SW1
SPD_SW2
AGND
ANA ROUT
ANA LOUT
VIDEO GND
VIDEO OUT
WAKE UP MG
CD/DVD:+3.04dBs
(1kHz, 0dB, 1.1Vrms)
3V →5V
IC401
TC7SET08FUS1
A 2/3
A 3/3
CN409
BT/HF MODEL
CN408
B CN2001
ACC+B
ENCVOL+
ENCVOL-
ACC/IV
ENCAUD+
ENCAUD-
ICVDD
LCDDO
LCDCK
LCDCE
LCDDI
DGND
PWMBL
P INFO
PWMLL
PGND
IC201
IC202
IC203
IC502
PEG306A
IC503
TC7SET08FUS1
3V →5V
5V →3V
IC504
TC74VHC08FTS1
X501
CSS1577
(10.0MHz)
CN403
G CN1003
TXP
TXN
ADPG
VV+
VAL
AGND
VAR
NTSC
GNDV
NTS1
NTS2
ADGN
SWVDD3

A-b 1/3

A 1/3 MAIN UNIT(1/3)


AVC-LAN:+8.23dBs (1kHz, 0dB, 2Vrms)
CN301
CN302
CN303
CN304
CN501
IC207 BD3842FS
IC502 PEG306A
IC504 TC74VHC08FTS1
IC301 HA12240FP
FM: -14dBs
AM: -11dBs
CD/DVD:-1.26dBs
AVC-LAN:-1.27dBs
Mini/VTR:-1.59dBs
FM: -4.7dBs
AM: -1.04dBs
CD/DVD:+8.03dBs
AVC-LAN:+8.03dBs
Mini/VTR:+7.71dBs
5V → 3V
A 2/3
A 3/3
A 1/3
MUTE
ALN
ALP
ARN
ARP
TXP
TXN
ACC
GNDS
GNDP
VDD5V
AC5V
1/2VCC
AUD+B
AMP+B
ANT+B
BU
MC1 BIN MC2

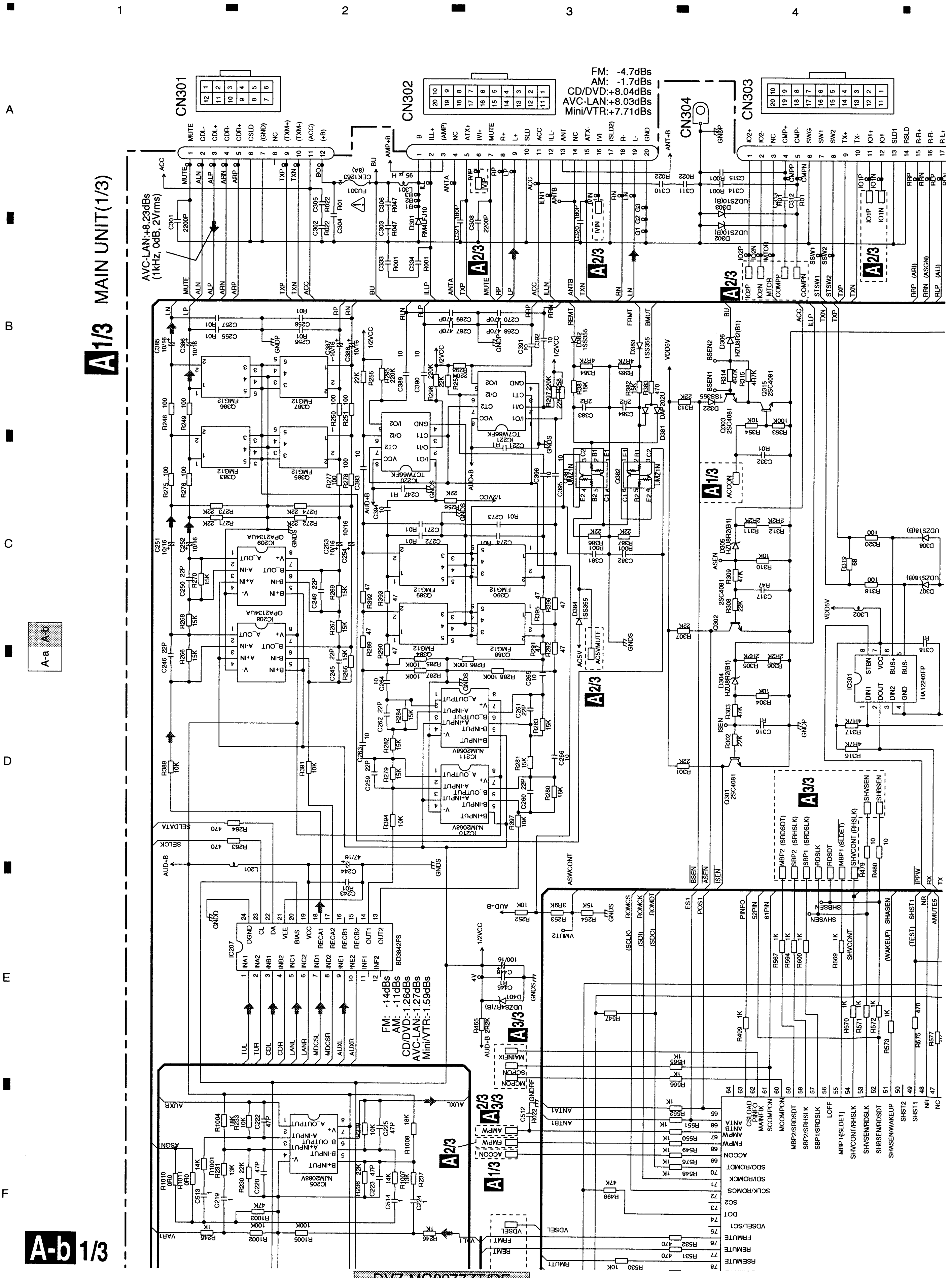
NOTE :

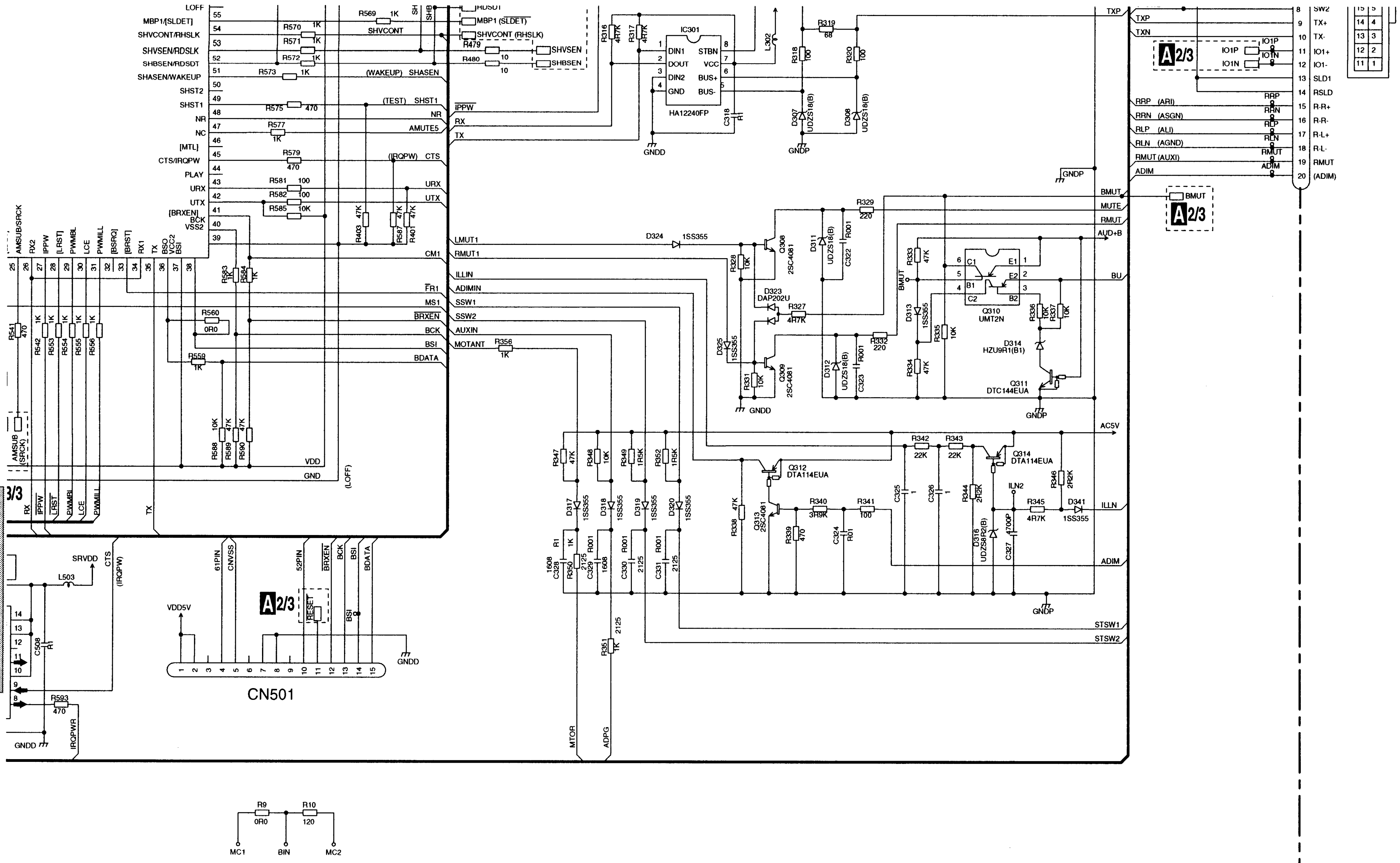
- ▭ Symbol indicates a resistor.
  No differentiation is made between chip resistors and discrete resistors.
- ⊣⊢ Symbol indicates a capacitor.
  No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :
2.2 – 2R2
0.022 – R022

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A 1/3


A-b 1/3
MAIN UNIT(1/3)
A 1/3
A-a
A-b
CN301
CN302
CN303
CN304
FM: -4.7dBs
AM: -1.7dBs
CD/DVD:+8.04dBs
AVC-LAN:+8.03dBs
Mini/VTR:+7.71dBs
AVC-LAN:+8.23dBs
(1kHz, 0dB, 2Vrms)
FM: -14dBs
AM: -11dBs
CD/DVD:-1.26dBs
AVC-LAN:-1.27dBs
Mini/VTR:-1.59dBs
IC207 BD3842FS
IC208 OPA2134UA
IC209 OPA2134UA
IC210 NJM2068V
IC211 NJM2068V
IC205 NJM2068V
IC220 TC7W66FK
IC221 TC7W66FK
IC301 HA12240FP
Q301 2SC4081
Q302 2SC4081
Q303 2SC4081
Q315 2SC4081
Q381 UMZ1N
Q382 UMZ1N
Q383 FMG12
Q384 FMG12
Q385 FMG12
Q386 FMG12
Q387 FMG12
Q388 FMG12
Q389 FMG12
Q390 FMG12
A 2/3
A 3/3
1
2
3
4
A
B
C
D
E
F


IC301
HA12240FP
DIN1
DOUT
DIN2
GND
STBN
VCC
BUS+
BUS-
Q308 2SC4081
Q309 2SC4081
Q310 UMT2N
Q311 DTC144EUA
Q312 DTA114EUA
Q313 2SC4081
Q314 DTA114EUA
D314 HZU9R1(B1)
D323 DAP202U
D324 1SS355
D325 1SS355
D307 UDZS18(B)
D308 UDZS18(B)
D311 UDZS18(B)
D312 UDZS18(B)
D316 UDZS8R2(B)
D317 1SS355
D318 1SS355
D319 1SS355
D320 1SS355
D341 1SS355
CN501
A 2/3
3/3
LOFF
MBP1/[SLDET]
SHVCONT/RHSLK
SHVSEN/RDSLK
SHBSEN/RDSDT
SHASEN/WAKEUP
SHST2
SHST1
NR
NC
[MTL]
CTS/IRQPW
PLAY
URX
UTX
[BRXEN]
BCK
VSS2
AMSUB/SRCK
RX2
IPPW
[LRST]
PWMBL
LCE
PWMILL
[BSRQ]
[BRST]
RX1
TX
BSO
VCC2
BSI
LMUT1
RMUT1
ILLIN
ADIMIN
SSW1
SSW2
AUXIN
MOTANT
CM1
FR1
MS1
BRXEN
BDATA
VDD
GND
VDD5V
SRVDD
L503
C508
R593
IRQPWR
GNDD
GNDP
61PIN
CNVSS
52PIN
RESET
TXP
TXN
IO1P
IO1N
RRP (ARI)
RRN (ASGN)
RLP (ALI)
RLN (AGND)
RMUT (AUXI)
ADIM
BMUT
MUTE
RMUT
AUD+B
BU
AC5V
ILLN
STSW1
STSW2
MTOR
ADPG
SW2
TX+
TX-
IO1+
IO1-
SLD1
RSLD
R-R+
R-R-
R-L+
R-L-
RMUT
(ADIM)
R9 0R0
R10 120
MC1
BIN
MC2

DVZ-MG8977ZT/RE

NOTE :

-▭- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

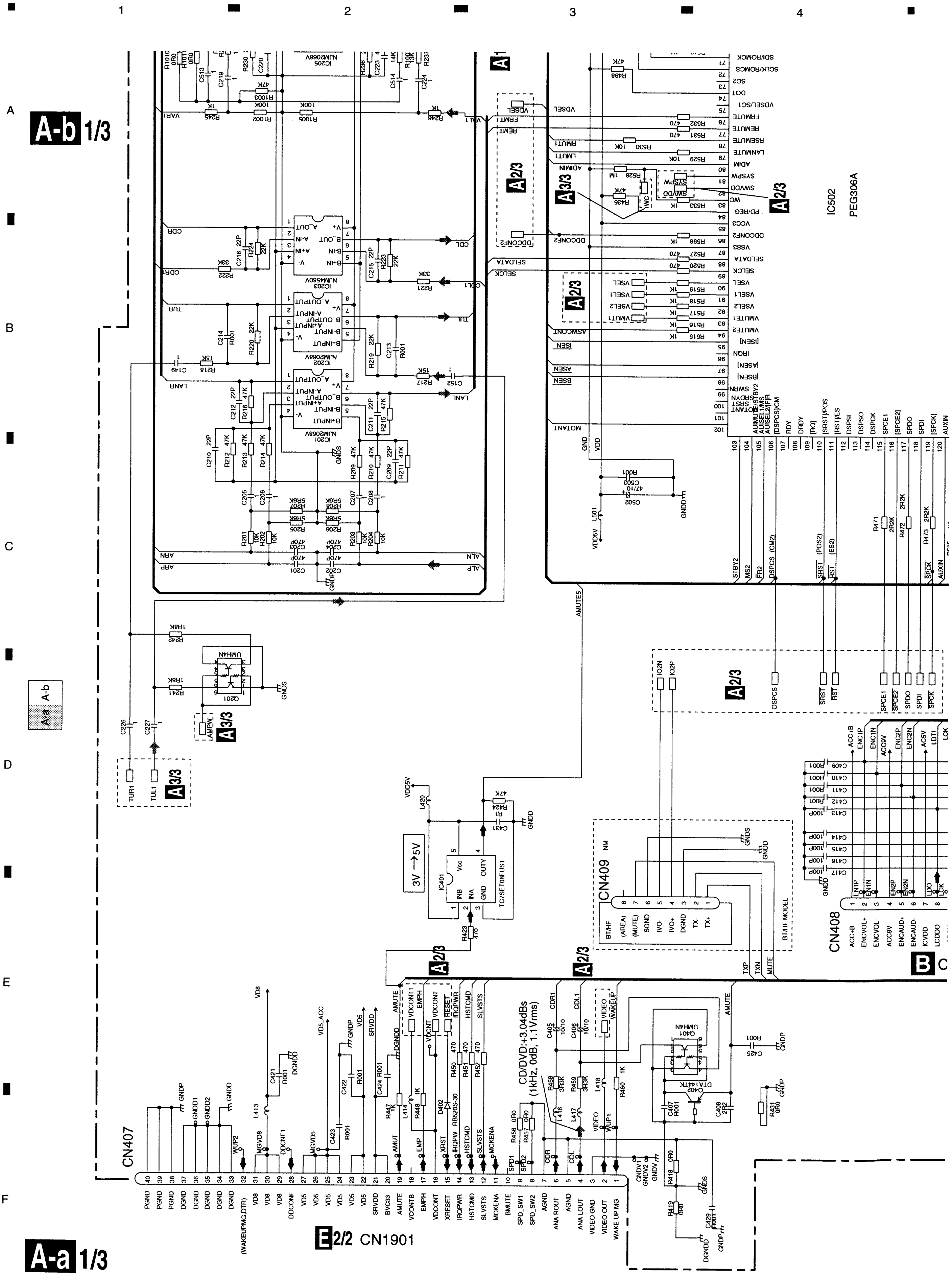
⊣⊢ Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :
2.2 → 2R2
0.022 → R022

A-a	A-b

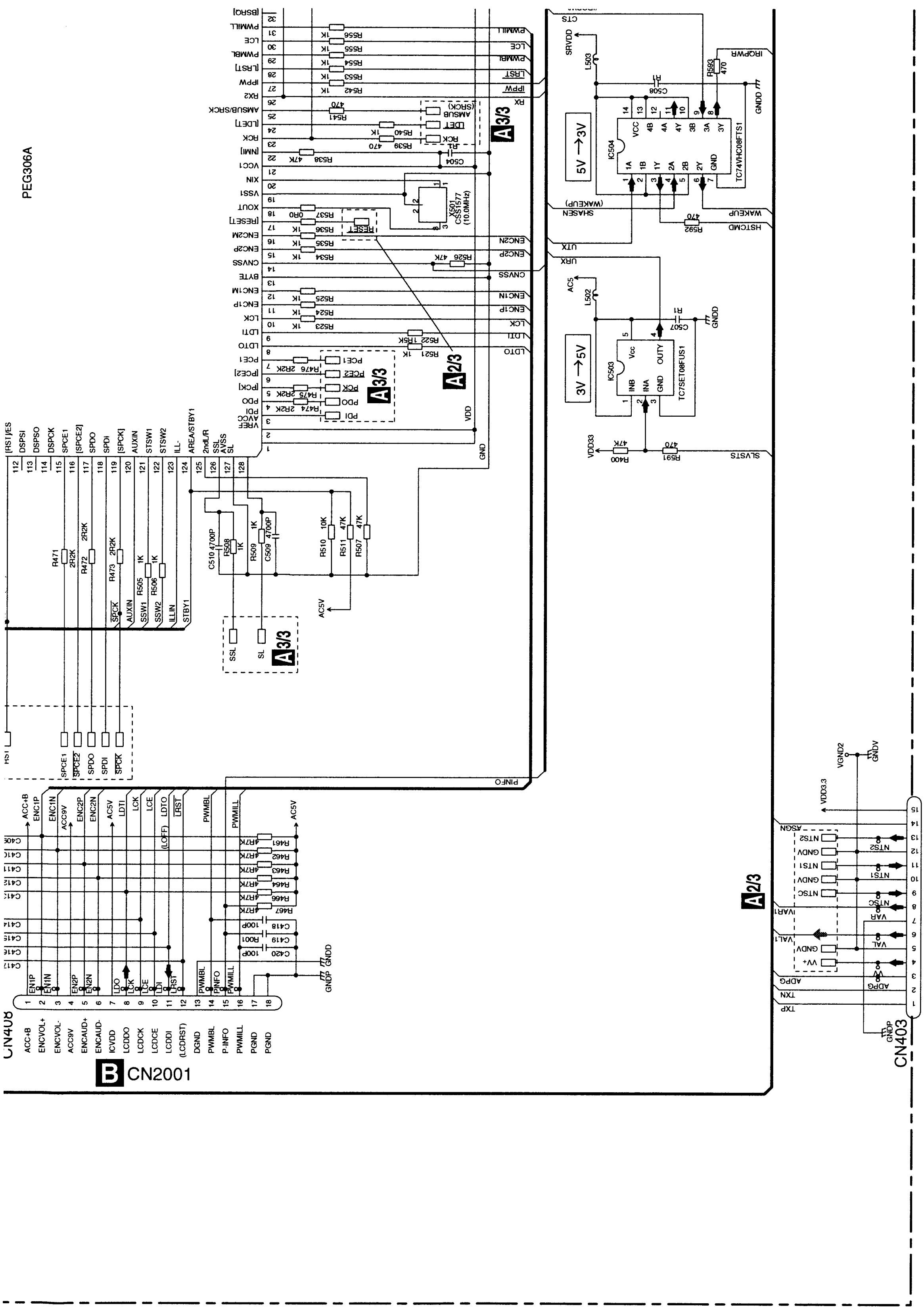
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A-b 1/3


A-b 1/3
A-a 1/3
A-a
A-b
1
2
3
4
A
B
C
D
E
F
IC502
PEG306A
IC205 NJM2068V
IC203 NJM4580V
IC202 NJM2068V
IC201 NJM2068V
IC401 TC7SET08FUS1
3V →5V
Q201 UMH4N
Q401 UMH4N
Q402 DTA144TK
D402 RB520S-30
CN409
CN408
CN407
E 2/2 CN1901
B
A 2/3
A 3/3
CD/DVD:+3.04dBs
(1kHz, 0dB, 1.1Vrms)
BT/HF MODEL
BT/HF
(AREA)
(MUTE)
SGND
IVO-
IVO+
DGND
TX-
TX+
ACC+B
ENCVOL+
ENCVOL-
ACC9V
ENCAUD+
ENCAUD-
ICVDD
LCDDO
PGND
DGND
(WAKEUP/MG,DTR)
VD8
DDCONF
VD5
SRVDD
BVC33
AMUTE
VCONTB
EMPH
VDCONT
XRESET
IRQPWR
HSTCMD
SLVSTS
MCKENA
BMUTE
SPD_SW1
SPD_SW2
AGND
ANA ROUT
ANA LOUT
VIDEO GND
VIDEO OUT
WAKE UP MG
TUR1
TUL1
AMUTE5
VDD5V
MOTANT
SELDATA
SELCK
DDCONF2
ADMIN
LMUTI
RMUTI
VDSEL
FRMT
REMT
SDI/ROMCK
SCLK/ROMCS
SO2
DOT
VDSEL/SC1
FRMUTE
REMUTE
RSEMUTE
LANMUTE
SYSPW
SWVDD
WC
PD/REG
VCC3
VSS3
VSEL
VSEL1
VSEL2
VMUTE1
VMUTE2
ISEN
IRON
ASEN
BSEN
SWRN
STBY2
MS2
FR2
DSPCS
SRST
RST
SPCE1
SPCE2
SPDO
SPDI
SPCK
AUXIN
IO2N
IO2P
LANR
LANL
CDR
CDL
TUR
TUL
ARN
ARP
ALN
ALP
GNDS
GNDD
GNDP
DVZ-MG8977ZT/RE

A

A-b 1/3


PEG306A
A 3/3
A 2/3
5V → 3V
IC504
TC74VHC08FTS1
3V → 5V
IC503
TC7SET08FUS1
X501
CSS1577
(10.0MHz)
RESET
B CN2001
CN408
G CN1003
CN403
SRVDD
VDD33
AC5V
GNDD
SSL
SL
PINFO

B

C

A-a A-b

D

E

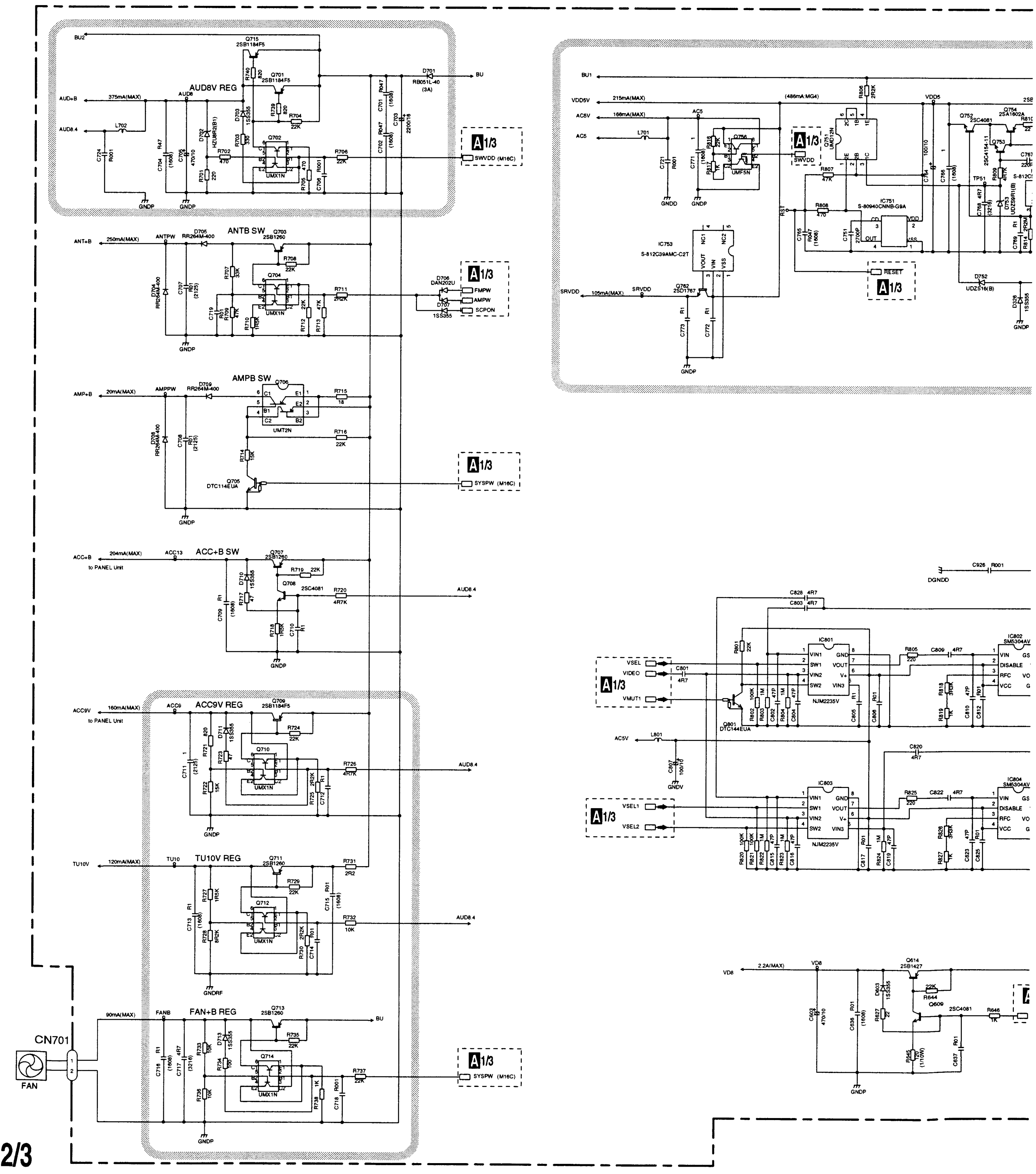
F

A-a 1/3

10.2 MAIN UNIT(2/3)(GUIDE PAGE)

A-a 2/3

: The power supply is shown with the marked box.

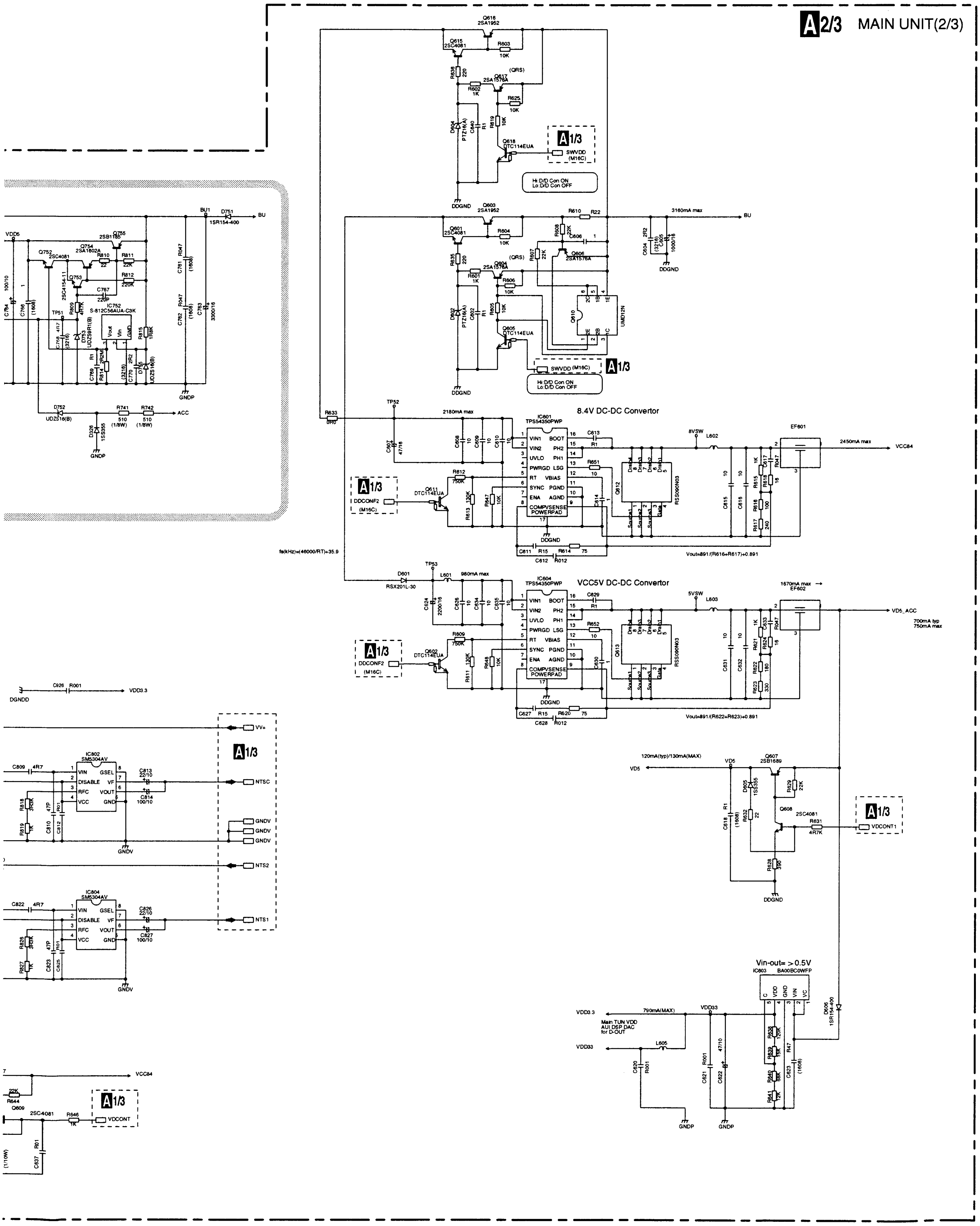


AUD8V REG
BU2
Q715 2SB1184F5
Q701 2SB1184F5
D701 RB051L-40 (3A)
BU
AUD+B
375mA(MAX)
AUD8
AUD8.4
L702
Q702 UMX1N
HZU8R2(B1)
1SS355
A1/3
SWVDD (M16C)
GNDP
ANTB SW
ANT+B
250mA(MAX)
ANTPW
D705 RR264M-400
Q703 2SB1260
Q704 UMX1N
D706 DAN202U
D707 1SS355
FMPW
AMPW
SCPON
AMPB SW
AMP+B
20mA(MAX)
AMPPW
D709 RR264M-400
Q706 UMT2N
Q705 DTC114EUA
SYSPW (M16C)
ACC+B SW
ACC+B
204mA(MAX)
ACC13
to PANEL Unit
Q707 2SB1260
Q708 2SC4081
ACC9V REG
ACC9V
160mA(MAX)
ACC9
Q709 2SB1184F5
Q710 UMX1N
TU10V REG
TU10V
120mA(MAX)
TU10
Q711 2SB1260
Q712 UMX1N
GNDRF
FAN+B REG
90mA(MAX)
FANB
Q713 2SB1260
Q714 UMX1N
CN701
FAN
BU1
VDD5V
215mA(MAX)
AC5V
166mA(MAX)
AC5
L701
Q756 UMF5N
SWVDD
IC752 UMD12N
(486mA:MG4)
VDD5
Q752 2SC4081
Q754 2SA1602A
Q753 2SC4154-11
UDZS9R1(B)
IC751 S-80940CNNB-G9A
IC753 S-812C39AMC-C2T
SRVDD
105mA(MAX)
Q762 2SD1767
RESET
D752 UDZS16(B)
1SS355
GNDD
DGNDD
IC801 NJM2235V
IC802 SM5304AV
VSEL
VIDEO
VMUT1
Q801 DTC144EUA
IC803 NJM2235V
IC804 SM5304AV
VSEL1
VSEL2
L801
GNDV
VD8
2.2A(MAX)
Q614 2SB1427
Q609 2SC4081
D603 1SS355
GNDP

A 2/3

A-b 2/3

A 2/3 MAIN UNIT(2/3)


Q616 2SA1952
Q615 2SC4081
R603 10K
R636 220
(QRS)
Q617 2SA1576A
R602 1K
R625 10K
D604 PTZ7.5A
C640 R1
R619 10K
Q618 DTC114EUA
A1/3
SWVDD (M16C)
Hi:D/D Con ON
Lo:D/D Con OFF
DDGND
Q603 2SA1952
Q601 2SC4081
R604 10K
R610 R22
3160mA max
BU
R608 22K
C606
Q606 2SA1576A
R607 22K
C604 2R2 (3216)
C605 1000/16
R635 220
Q604 2SA1576A
R601 1K
R606 10K
D602 PTZ7.5A
C602 R1
R605 10K
Q605 DTC114EUA
Q610 UMD12N
SWVDD (M16C)
A1/3
Hi:D/D Con ON
Lo:D/D Con OFF
DDGND
BU1
D751 1SR154-400
BU
VDD5
Q755 2SB1188
Q754 2SA1602A
Q752 2SC4081
Q753 2SC4154-11
R810 22
R811 22K
R812 220K
C767 220P
IC752 S-812C56AUA-C3K
D753 UDZS9R1(B)
TP51
D755 UDZS18(B)
R815 1R8K
C781 R047 (1608)
C782 R047 (1608)
C783 3300/16
GNDP
D752 UDZS18(B)
R741 510 (1/8W)
R742 510 (1/8W)
ACC
D326 1SS355
GNDP
R633 0R0
TP52
2180mA max
8.4V DC-DC Convertor
IC601 TPS54350PWP
VIN1 BOOT
VIN2 PH2
UVLO PH1
PWRGD LSG
RT VBIAS
SYNC PGND
ENA AGND
COMP/SENSE POWERPAD
C613 R1
R651 10
Q612 RSS090N03
8VSW
L602
EF601
2450mA max
VCC84
R612 750K
Q611 DTC114EUA
A1/3
DDCONF2 (M16C)
R613 130K
R647 10K
DDGND
C611 R15
C612 R012
R614 75
fs(kHz)=(46000/RT)+35.9
Vout=891/(R616+R617)+0.891
R615 1K
R616 100
R617 240
D601 RSX201L-30
TP53
L601
960mA max
VCC5V DC-DC Convertor
IC604 TPS54350PWP
C629 R1
R652 10
Q613 RSS090N03
5VSW
L603
1670mA max
EF602
VD5_ACC
700mA typ
750mA max
R609 750K
Q602 DTC114EUA
A1/3
DDCONF2 (M16C)
R611 130K
R648 10K
C627 R15
C628 R012
R620 75
Vout=891/(R622+R623)+0.891
R621 1K
R622 180
R623 330
C626 R001
DGNDD
VDD3.3
VV+
A1/3
NTSC
GNDV
NTS2
NTS1
IC802 SM5304AV
IC804 SM5304AV
VIN GSEL
DISABLE VF
RFC VOUT
VCC GND
C809 4R7
C822 4R7
C813 22/10
C814 100/10
C826 22/10
C827 100/10
R818 3R3K
R819
R826 3R3K
R827
GNDV
120mA(typ)/130mA(MAX)
VD5
Q607 2SB1689
R629 22K
D605 1SS355
Q608 2SC4081
R631 4R7K
A1/3
VDCONT1
C618 R1 (1608)
R632 22
R628 33K
DDGND
Vin-out= >0.5V
IC603 BA00BC0WFP
VDD3.3
790mA(MAX)
VDD33
Main TUN VDD
AUI DSP DAC
for D-OUT
L605
R638 100K
R639 15K
R640 68K
R641 15K
R47
C623 (1608)
C620 R001
C621 R001
C622 47/10
D606 1SR154-400
GNDP
VCC84
R644 22K
Q609 2SC4081
R646 1K
A1/3
VDCONT
C637 R01
(1/10W)

A 2/3

A

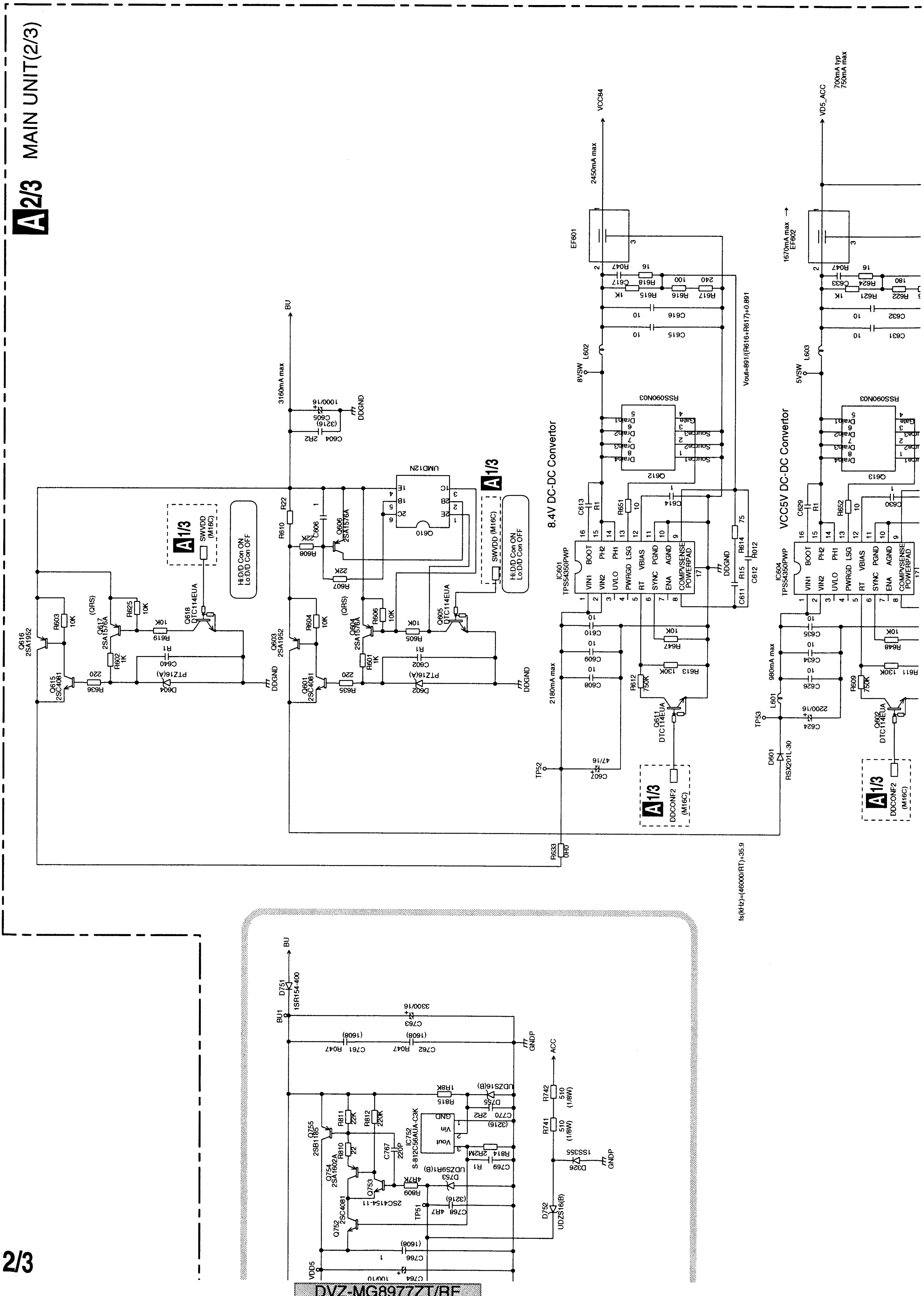
B

C

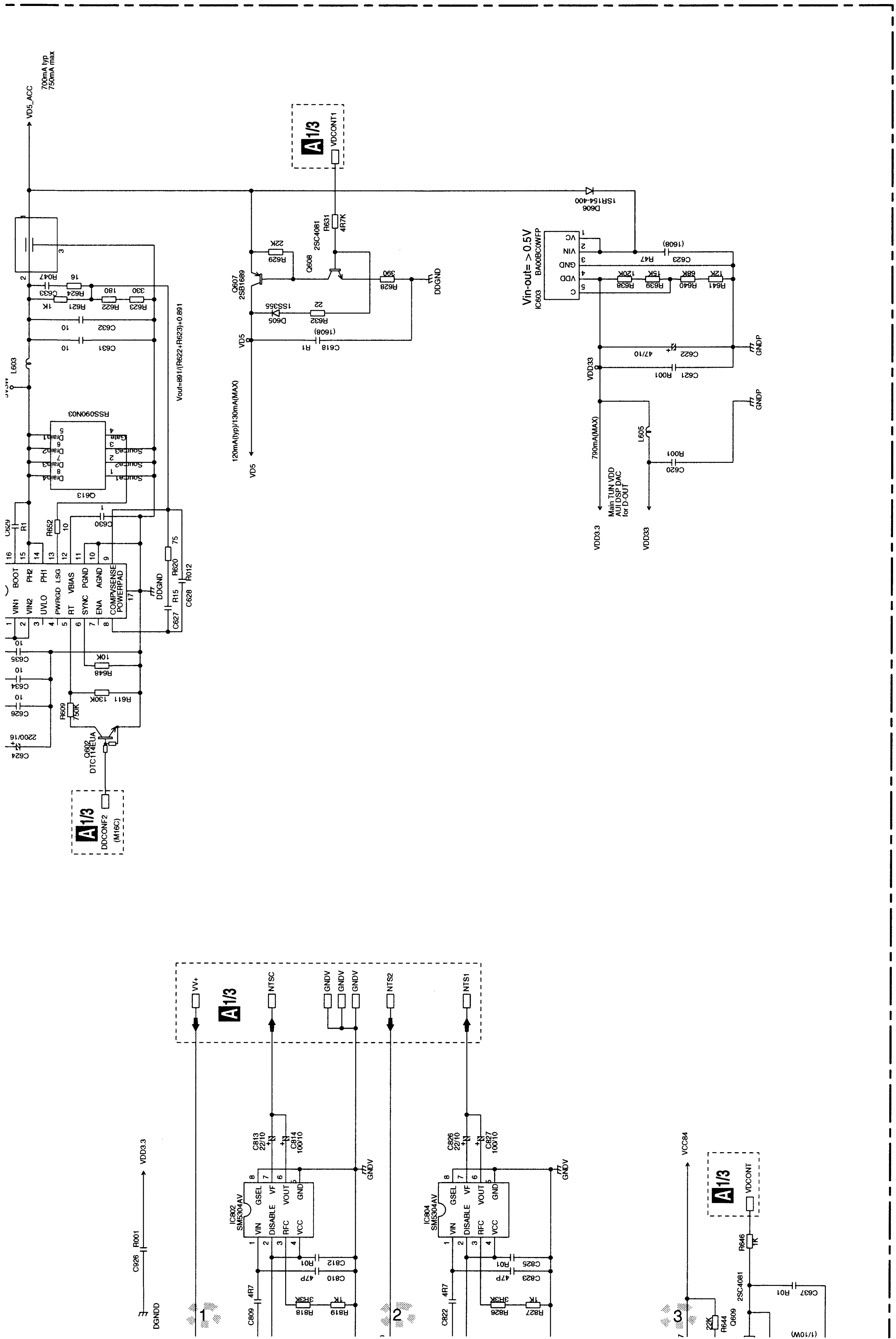
D

E

F


A 2/3 MAIN UNIT(2/3)
A-a A-b
8.4V DC-DC Convertor
VCC5V DC-DC Convertor
IC601 TPS54350PWP
IC604 TPS54350PWP
Q612 RSS090N03
Q613 RSS090N03
EF601
EF602
VCC84
VD5_ACC
2450mA max
1670mA max
700mA typ 750mA max
BU
3160mA max
2180mA max
980mA max
8VSW
5VSW
L602
L603
L601
Vout=891/(R616+R617)+0.891
fs(kHz)=(46000/RT)+35.9
Q610 UMD12N
Q601 2SC4081
Q603 2SA1952
Q604 2SA1576A
Q605 DTC114EUA
Q606 2SA1576A
Q615 2SC4081
Q616 2SA1952
Q617 2SA1576A
Q618 DTC114EUA
Q611 DTC114EUA
Q602 DTC114EUA
A 1/3 SWVDD (M16C)
Hi:D/D Con ON
Lo:D/D Con OFF
A 1/3 DDCONF2 (M16C)
D601 RSX201L-30
D602 PTZ16(A)
D604 PTZ16(A)
TP52
TP53
R633 0R0
DDGND
BU
D751 1SR154-400
BU1
C763 3300/16
C761 R047 (1608)
C762 R047 (1608)
GNDP
ACC
R742 510 (1/8W)
R741 510 (1/8W)
D326 1SS355
D752 UDZS16(B)
D755 UDZS16(B)
D753 UDZS9R1(B)
IC752 S-812C56AUA-C3K
Q755 2SB1185
Q754 2SA1602A
Q753 2SC4154-11
Q752 2SC4081
TP51
VDD5
C764 100/10
C766 1 (1608)

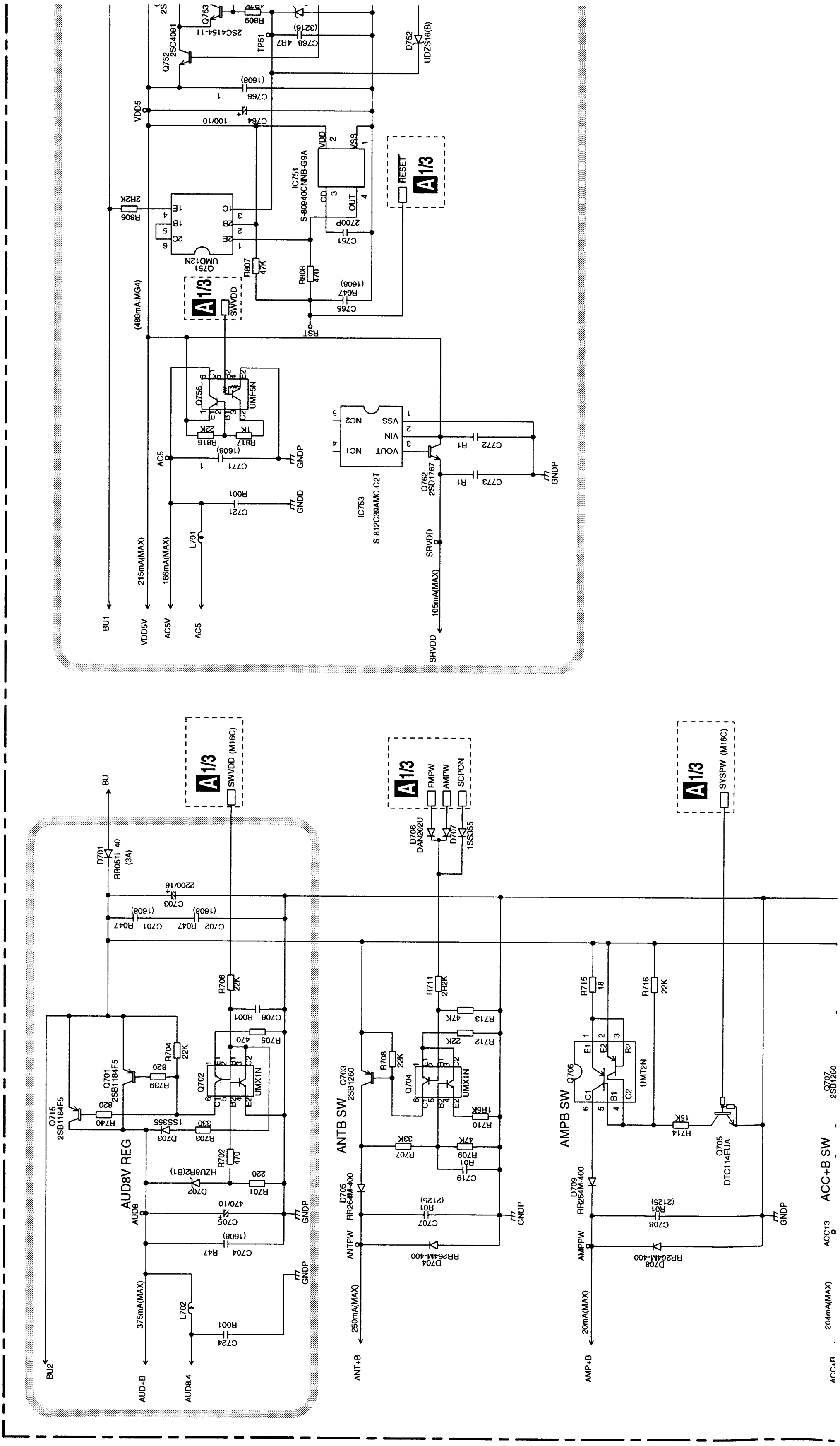
DVZ-MG8977ZT/RE


VD5_ACC
700mA typ
750mA max
A 1/3
VDCONT1
D606
1SR154-400
Vin-out= >0.5V
IC603
BA00BC0WFP
VC
VIN
GND
VDD
C
C623
(1608)
R47
R638 120K
R639 15K
R640 68K
R641 12K
C622 47/10
C621 R001
GNDP
VDD33
790mA(MAX)
L605
C620 R001
Main TUN VDD
AU DSP DAC
for D-OUT
VDD3.3
VDD33
Q607
2SB1689
Q608
2SC4081
R631 4R7K
R629 22K
R628 390
DDGND
D605 1SS355
R632 22
C618 R1
(1608)
VD5
120mA(typ)/130mA(MAX)
C633 R047
R624 16
R621 1K
R622 180
R623 330
C632 10
C631 10
L603
Vout=891/(R622+R623)+0.891
Q613
RSS090N03
Gate
Source1
Source2
Source3
Drain1
Drain2
Drain3
Drain4
R652 10
C630 1
C629 R1
BOOT
PH2
PH1
LSG
VBIAS
PGND
AGND
COMP/VSENSE
POWERPAD
VIN1
VIN2
UVLO
PWRGD
RT
SYNC
ENA
R620 75
R015
C627
C628 R012
C635 10
C634 10
C626 10
C624 2200/16
R648 10K
R611 130K
R609 750K
Q602
DTC114EUA
DDCONF2
(M16C)
VV+
NTSC
GNDV
NTS2
NTS1
IC802
SM5304AV
IC804
SM5304AV
VIN
DISABLE
RFC
VCC
GSEL
VF
VOUT
GND
C813 22/10
C814 100/10
C826 22/10
C827 100/10
C812 R01
C810 47P
C825 R01
C823 47P
R818 3R3K
R819 1K
R826 3R3K
R827 1K
C809 4R7
C822 4R7
C926 R001
VDD3.3
DGNDD
VCC84
VDCONT
R646 1K
Q609 2SC4081
R644 22K
C637 R01
(1/10W)
1
2
3

A-b 2/3

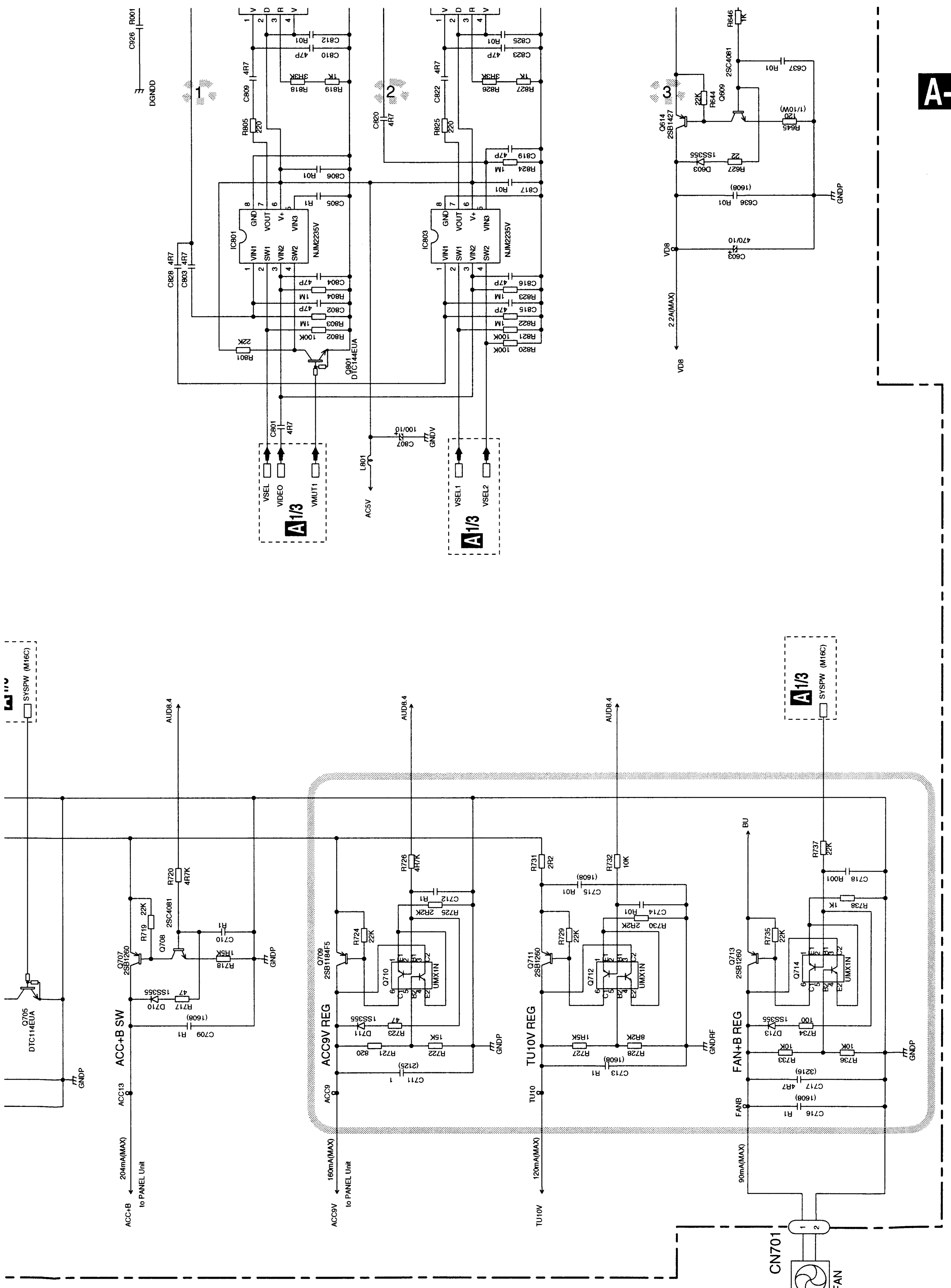
A-b 2/3

○ : The power supply is shown with the marked box.


A1/3
SWVDD
RESET
SWVDD (M16C)
FMPW
AMPW
SCPON
SYSPW (M16C)
IC751
S-80940CNNB-G9A
IC753
S-812C39AMC-C2T
Q751
UMD12N
Q752
2SC4081
Q753
2SC4154-11
Q756
UMF5N
Q762
2SD1767
D752
UDZS16(B)
BU1
VDD5V
AC5V
AC5
SRVDD
VDD5
RST
GNDP
GNDD
(486mA.MG4)
215mA(MAX)
166mA(MAX)
105mA(MAX)
AUD8V REG
ANTB SW
AMPB SW
ACC+B SW
Q701
2SB1184F5
Q715
2SB1184F5
Q702
UMX1N
Q703
2SB1260
Q704
UMX1N
Q706
UMT2N
Q705
DTC114EUA
Q707
2SB1260
D701
RB051L-40
(3A)
D702
HZU8R2(B1)
D703
1SS355
D706
DAN202U
D707
1SS355
D705
RR264M-400
D704
RR264M-400
D709
RR264M-400
D708
RR264M-400
BU
BU2
AUD+B
AUD8.4
AUD8
ANT+B
ANTPW
AMP+B
AMPPW
ACC+B
375mA(MAX)
250mA(MAX)
20mA(MAX)
204mA(MAX)

A-a 2/3

A-b 2/3

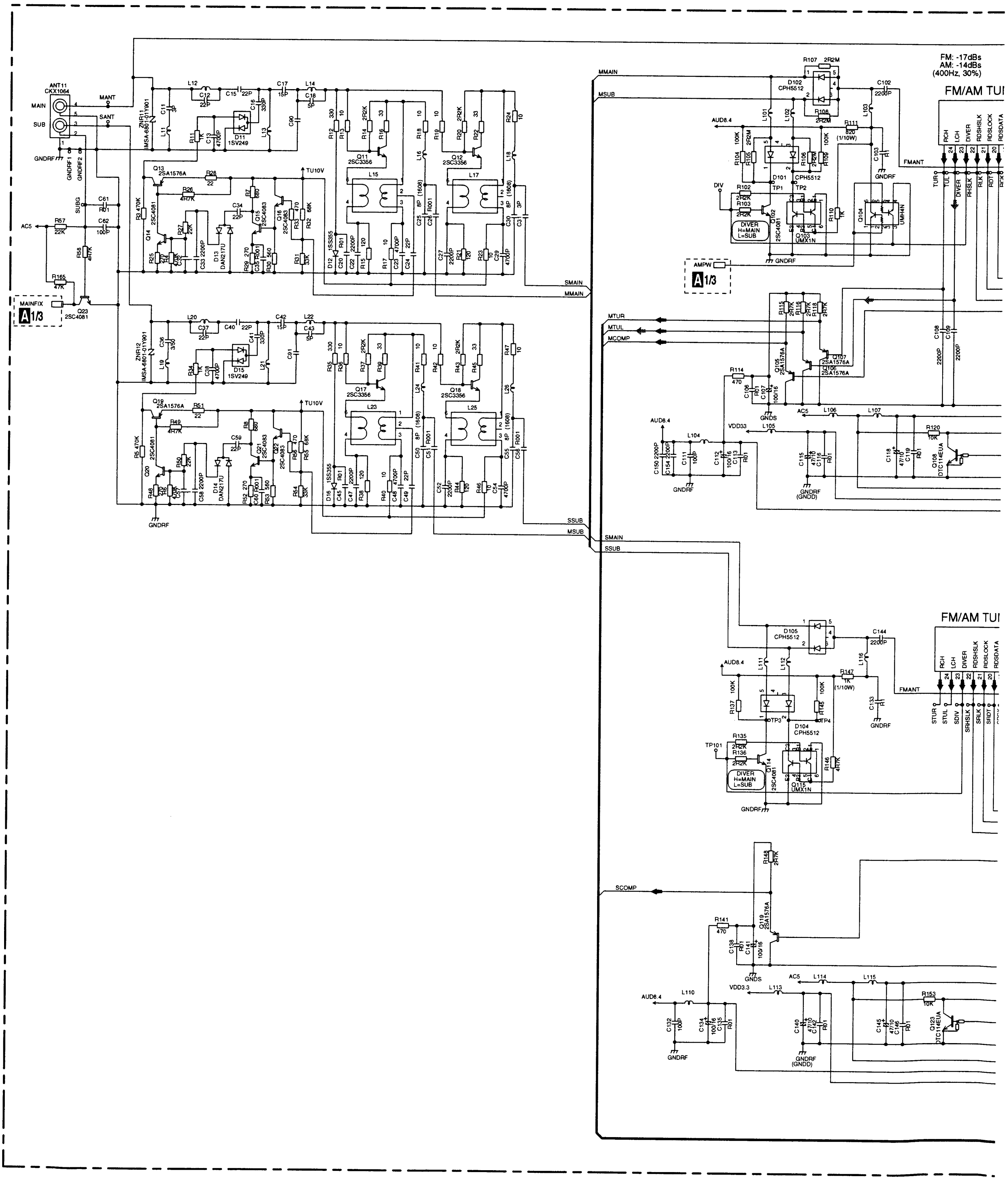

IC801
NJM2235V
IC803
NJM2235V
Q801
DTC144EUA
VSEL
VIDEO
VMUT1
VSEL1
VSEL2
A 1/3
AC5V
L801
C807 100/10
GNDV
DGNDD
C926
R001
Q614
2SB1427
Q609
2SC4081
R644 22K
R645 120 (1/10W)
R646
D603 1SS355
R627 22
C636 R01 (1608)
C603 470/10
VD8
2.2A(MAX)
GNDP
ACC+B SW
ACC9V REG
TU10V REG
FAN+B REG
Q705
DTC114EUA
SYSPW (M16C)
Q707
2SB1260
Q708
2SC4081
R720 4R7K
AUD8.4
Q709
2SB1184F5
Q710
UMX1N
R726 4R7K
Q711
2SB1260
Q712
UMX1N
R731 2R2
R732 10K
Q713
2SB1260
Q714
UMX1N
R737 22K
BU
ACC13
ACC9
TU10
FANB
ACC+B
to PANEL Unit
204mA(MAX)
ACC9V
160mA(MAX)
TU10V
120mA(MAX)
90mA(MAX)
GNDRF
CN701
FAN
A B C D E F

A-a A-b

A-a 2/3

10.3 MAIN UNIT(3/3)(GUIDE PAGE)

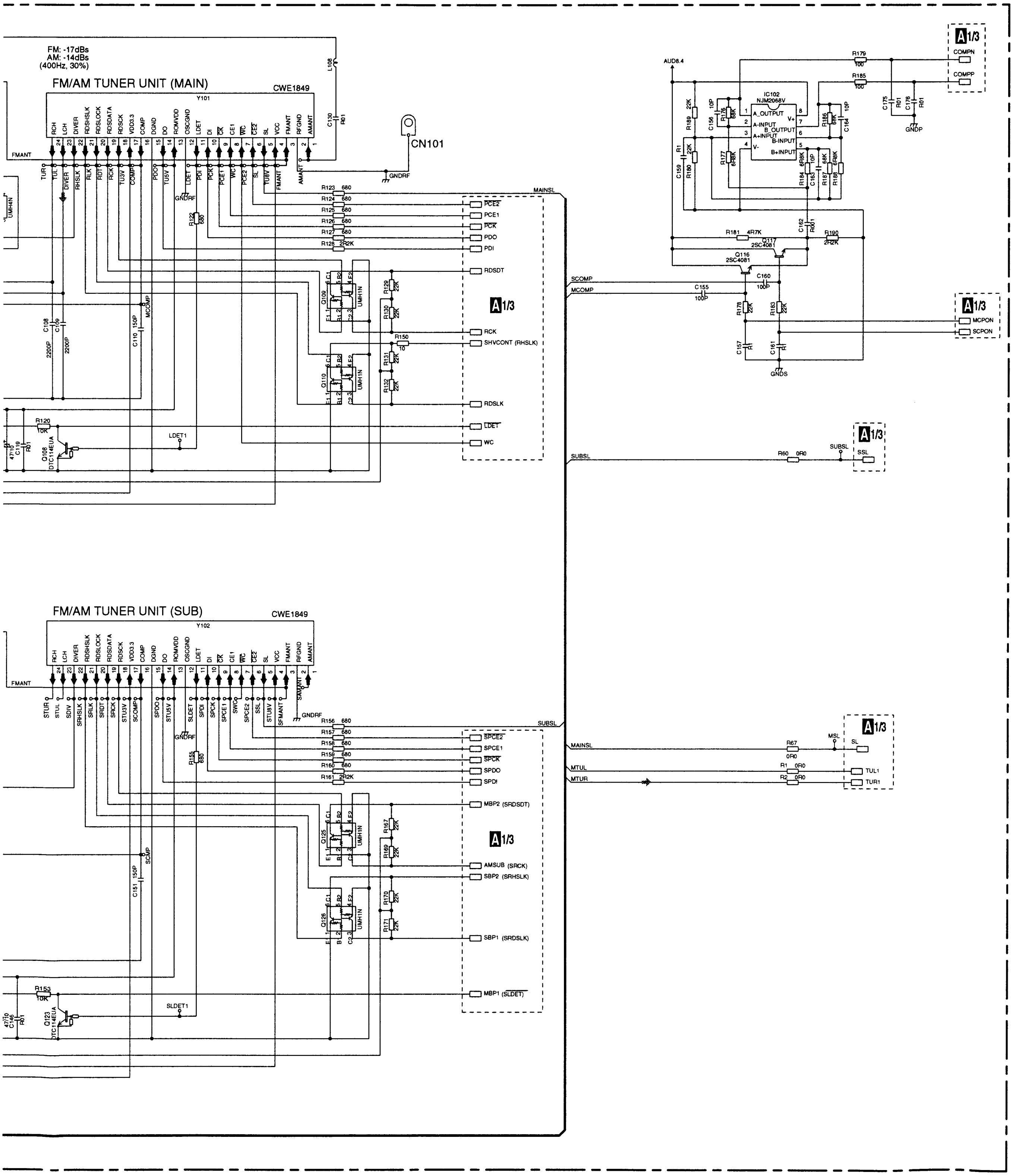
A-a 3/3


ANT11
CKX1064
MAIN
SUB
MANT
SANT
GNDRF
GNDRF1
GNDRF2
SUBG
AC5
R57 22K
C61
C62 100P
R58 4R7K
R165 47K
MAINFIX
A 1/3
Q23 2SC4081
ZNR11 IMSA-6801-01Y901
ZNR12 IMSA-6801-01Y901
L12
C12 22P
C15 22P
C16 330P
D11 1SV249
D15 1SV249
C17 15P
L14
C18 5P
Q11 2SC3356
Q12 2SC3356
Q17 2SC3356
Q18 2SC3356
L15
L17
L23
L25
Q13 2SA1576A
Q19 2SA1576A
Q14 2SC4081
Q20 2SC4081
Q16 2SC4083
Q21 2SC4083
Q22 2SC4083
D13 DAN217U
D14 DAN217U
D12 1SS355
D16 1SS355
TU10V
SMAIN
MMAIN
SSUB
MSUB
MMAIN
MSUB
MTUR
MTUL
MCOMP
SMAIN
SSUB
SCOMP
R107 2R2M
D102 CPH5512
C102 2200P
D101 CPH5512
D104 CPH5512
D105 CPH5512
FM: -17dBs
AM: -14dBs
(400Hz, 30%)
FM/AM TU
AUD8.4
R111 820 (1/10W)
R147 1K (1/10W)
FMANT
TUR
TUL
DIVER
RHSLK
RDT
RCH
LCH
RDSHSLK
RDSLOCK
RDSDATA
STUR
STUL
SDIV
SRHSLK
SRLK
SRDT
DIV
TP1
TP2
TP3
TP4
TP101
DIVER
H=MAIN
L=SUB
Q102 2SC4081
Q103 UMX1N
Q104 UMH4N
Q114 2SC4081
Q115 UMX1N
AMPW
A 1/3
Q105 2SA1576A
Q106 2SA1576A
Q107 2SA1576A
Q119 2SA1576A
R114 470
R141 470
GNDS
VDD3.3
L104
L105
L106
L107
L110
L113
L114
L115
R120 10K
R153 10K
Q108 DTC114EUA
Q123 DTC114EUA
GNDRF (GNDD)
C144 2200P
R148 2R7K

A 3/3

A-b 3/3

A 3/3 MAIN UNIT(3/3)


FM: -17dBs
AM: -14dBs
(400Hz, 30%)
FM/AM TUNER UNIT (MAIN)
CWE1849
Y101
CN101
GNDRF
MAINSL
PCE2
PCE1
PCK
PDO
PDI
RDSDT
RCK
SHVCONT (RHSLK)
RDSLK
LDET
WC
LDET1
Q108
DTC114EUA
Q109
Q110
UMH1N
A 1/3
FM/AM TUNER UNIT (SUB)
CWE1849
Y102
SUBSL
SPCE2
SPCE1
SPCK
SPDO
SPDI
MBP2 (SRDSDT)
AMSUB (SRCK)
SBP2 (SRHSLK)
SBP1 (SRDSLK)
MBP1 (SLDET)
SLDET1
Q123
DTC114EUA
Q125
Q126
AUD8.4
IC102
NJM2068V
A_OUTPUT
A-INPUT
A+INPUT
B_OUTPUT
B-INPUT
B+INPUT
V+
V-
COMPN
COMPP
GNDP
Q117
2SC4081
Q116
2SC4081
SCOMP
MCOMP
MCPON
SCPON
GNDS
SUBSL
SSL
MSL
SL
MAINSL
MTUL
MTUR
TUL1
TUR1

A 3/3

A

B

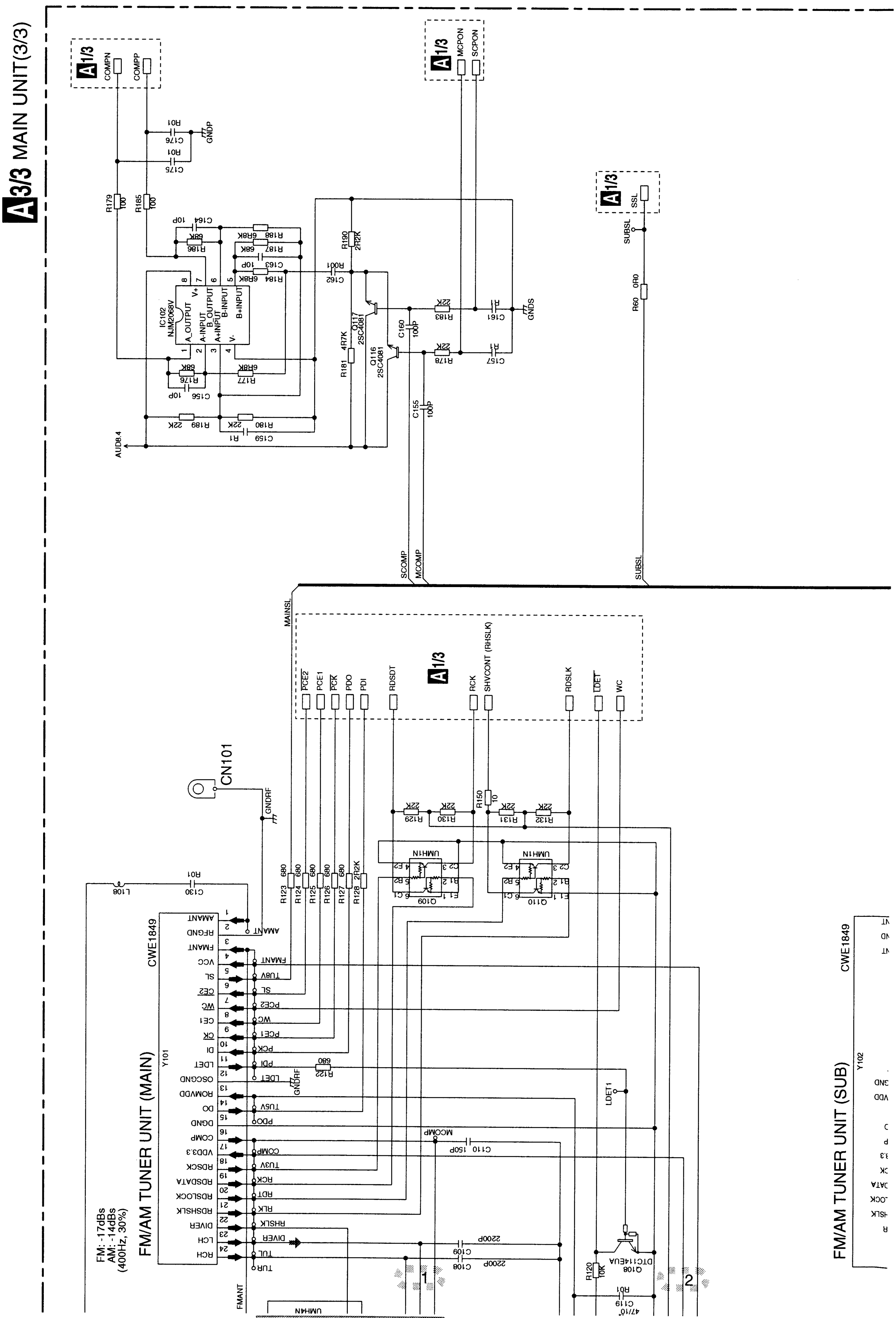
C

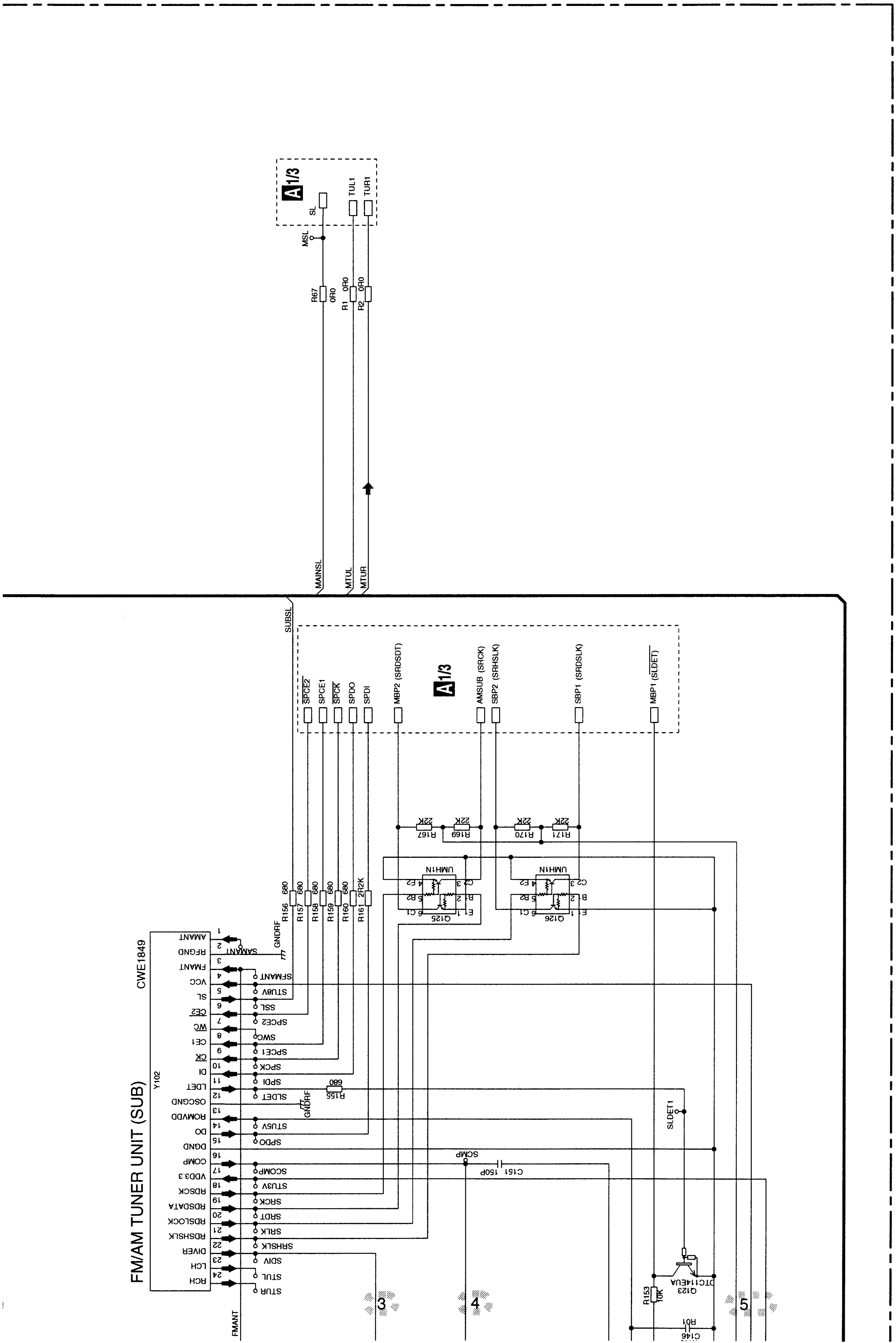
D

E

F

A-a	A-b


A 3/3 MAIN UNIT(3/3)
A 1/3
COMPN
COMPP
MCPON
SCPON
SSL
SUBSL
R60 0R0
C176 R01
C175 R01
GNDP
R179 100
R165 100
C164 10P
R186 68K
R188 6R8K
R187 68K
C163 10P
R184 6R8K
IC102 NJM2068V
A_OUTPUT
A-INPUT
A+INPUT
V-
V+
B_OUTPUT
B-INPUT
B+INPUT
R176 68K
C156 10P
R177 6R8K
R189 22K
R180 22K
C159 R1
AUD8.4
R190 2R2K
C162 R001
Q117 2SC4081
Q116 2SC4081
R181 4R7K
C160 100P
C155 100P
R183 22K
R178 22K
C161
C157
GNDS
SCOMP
MCOMP
SUBSL
MAINSL
PCE2
PCE1
PCK
PDO
PDI
RDSDT
RCK
SHVCONT (RHSLK)
RDSLK
LDET
WC
CN101
GNDRF
R129 22K
R130 22K
R150 10
R131 22K
R132 22K
UMH1N
Q109
Q110
R123 680
R124 680
R125 680
R126 680
R127 680
R128 2R2K
C130 R01
L108
CWE1849
FM/AM TUNER UNIT (MAIN)
Y101
AMANT
RFGND
FMANT
VCC
SL
CE2
WC
CE1
CK
DI
LDET
OSCGND
ROMVDD
DO
DGND
COMP
VDD3.3
RDSCK
RDSDATA
RDSLOCK
RDSHSLK
DIVER
LCH
RCH
TU8V
TU5V
TU3V
RCK
RDT
RLK
RHSLK
TUL
TUR
R122 680
C110 150P
C109 2200P
C108 2200P
LDET1
R120 10K
Q108 DTC114EUA
C119 R01
47/10
FM: -17dBs
AM: -14dBs
(400Hz, 30%)
FMANT
UMH1N
1
2
FM/AM TUNER UNIT (SUB)
Y102


FM/AM TUNER UNIT (SUB)
CWE1849
Y102
A 1/3
SL
TUL1
TUR1
MSL
R67 0R0
R1 0R0
R2 0R0
MAINSL
MTUL
MTUR
SUBSL
SPCE2
SPCE1
SPCK
SPDO
SPDI
MBP2 (SRDSDT)
AMSUB (SRCK)
SBP2 (SRHSLK)
SBP1 (SRDSLK)
MBP1 (SLDET)
R167 22K
R169 22K
R170 22K
R171 22K
UMH1N
Q125
Q126
R156 680
R157 680
R158 680
R159 680
R160 680
R161 2R2K
GNDRF
R155 680
SLDET1
C151 150P
SCMP
DTC114EUA
Q123
R153 10K
R01
C146
AMANT
RFGND
FMANT
VCC
SL
CE2
WC
CE1
CK
DI
LDET
OSCGND
ROMVDD
DO
DGND
COMP
VDD3.3
RDSCK
RDSDATA
RDSLOCK
RDSHSLK
DIVER
LCH
RCH
SAMANT
SFMANT
STU8V
SSL
SPCE2
SWC
SPCE1
SPCK
SPDI
SLDET
STU5V
SPDO
SCOMP
STU3V
SRCK
SRDT
SRLK
SRHSLK
SDIV
STUL
STUR
FMANT
3
4
5

A

A-b 3/3

B

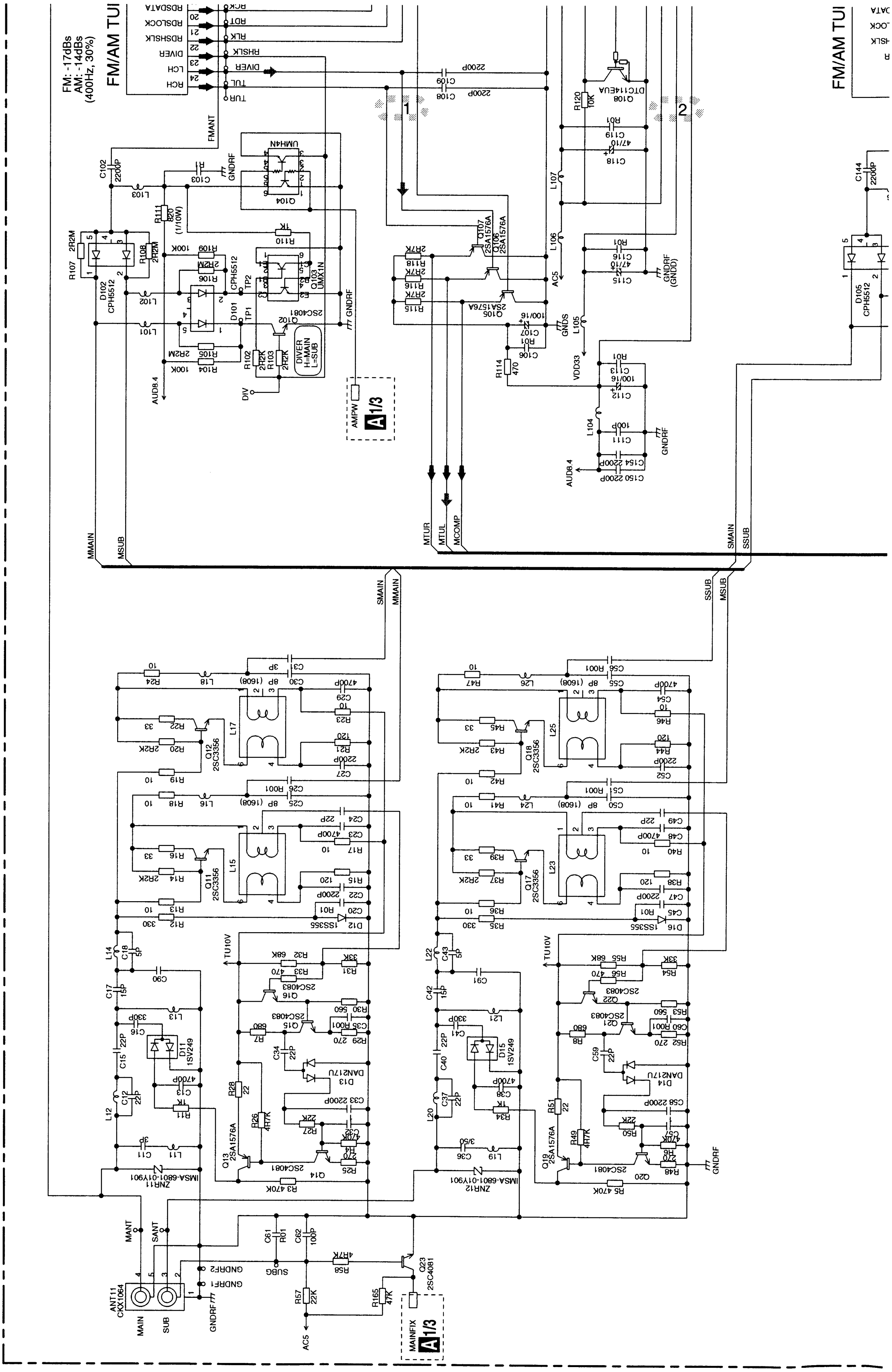
C

A-b
A-a

D

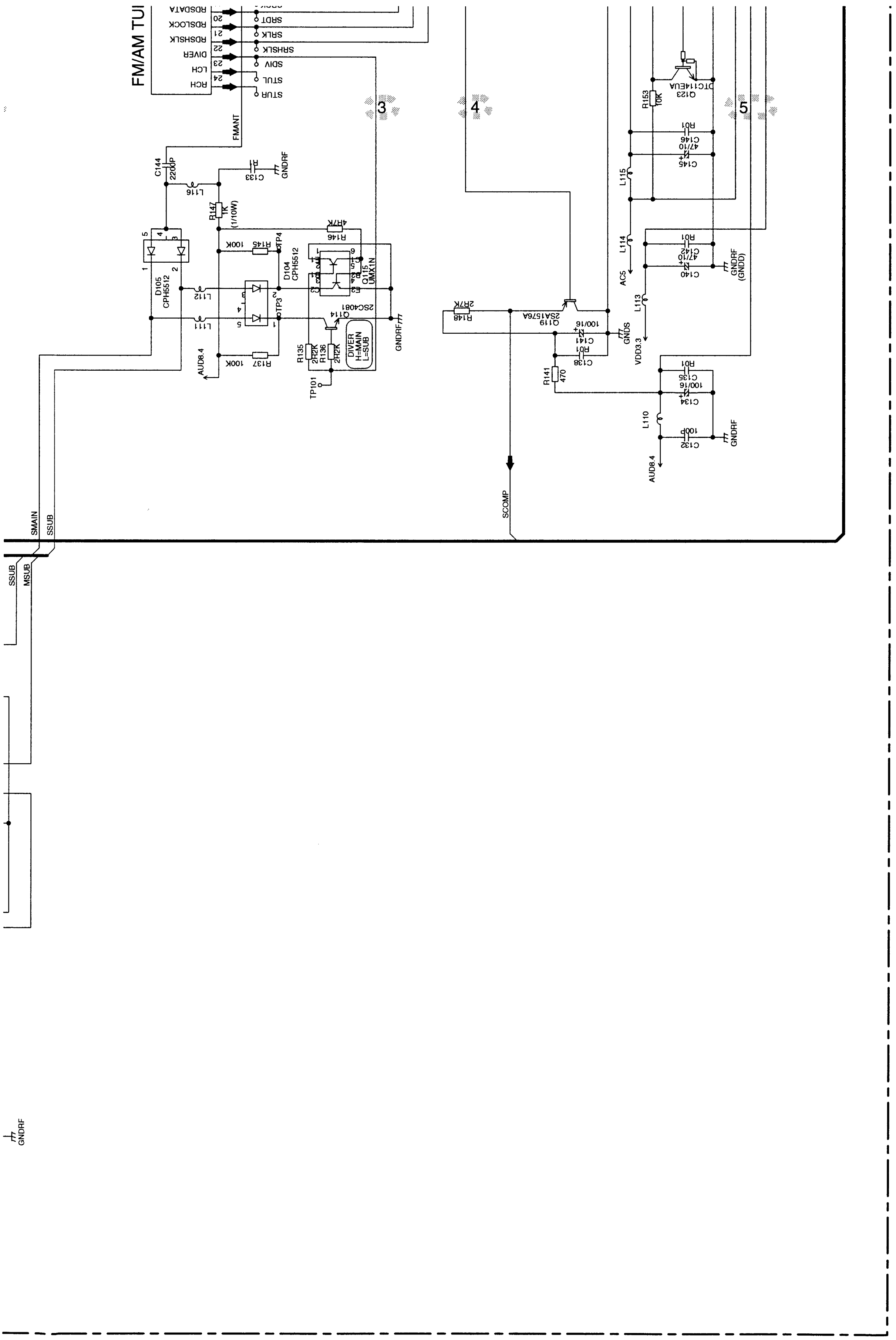
E

F


FM/AM TU
FM: -17dBs
AM: -14dBs
(400Hz, 30%)
RDSDATA
RDSLOCK
RDSHSLK
DIVER
LCH
RCH
FMANT
AUD8.4
DIV
AMPW
A1/3
MMAIN
MSUB
SMAIN
SSUB
MTUR
MTUL
MCOMP
VDD33
AC5
GNDRF
GNDS
D101
D102 CPH5512
Q102 2SC4081
Q103 UMX1N
Q104 UMH4N
Q105 2SA1576A
Q106 2SA1576A
Q107 2SA1576A
Q108 DTC114EUA
DIVER H=MAIN L=SUB
TU10V
Q11 2SC3356
Q12 2SC3356
Q17 2SC3356
Q18 2SC3356
Q13 2SA1576A
Q19 2SA1576A
Q14 2SC4081
Q20 2SC4081
Q15 2SC4083
Q16 2SC4083
Q21 2SC4083
Q22 2SC4083
D11 1SV249
D15 1SV249
D13 DAN217U
D14 DAN217U
D12 1SS355
D16 1SS355
ZNR11 IMSA-6801-01Y901
ZNR12 IMSA-6801-01Y901
ANT11 CKX1064
MAIN
SUB
MANT
SANT
GNDRF1
GNDRF2
SUBG
Q23 2SC4081
R165 47K
R57 22K
R58 4R7K
MAINFIX
A1/3
D105 CPH5512
C144 2200P

A-a 3/3

A-b 3/3

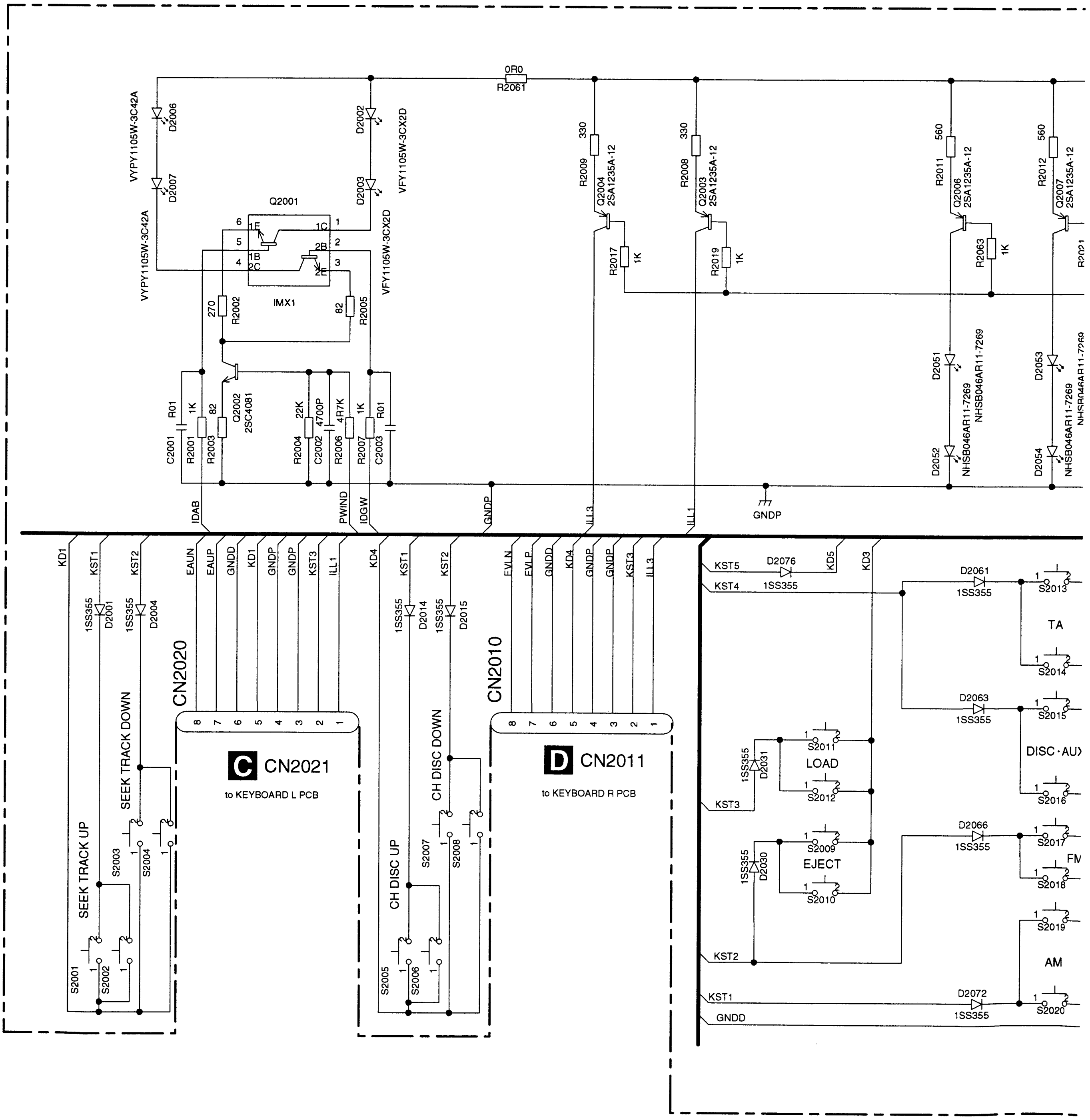

FM/AM TU
RDSDATA
RDSLOCK
RDSHSLK
DIVER
LCH
RCH
20
21
22
23
24
SRDT
SRLK
SRHSLK
SDIV
STUL
STUR
3
4
5
FMANT
C144
2200P
C133
GNDRF
L116
R147
1K
(1/10W)
R146
4R7K
R145
100K
TP4
D104
CPH5512
Q115
UMX1N
D105
CPH5512
L112
L111
TP3
Q114
2SC4081
R135
2R2K
R136
2R2K
DIVER
H=MAIN
L=SUB
TP101
R137
100K
AUD8.4
GNDRF
R148
2R7K
Q119
2SA1576A
C141
100/16
C138
R01
R141
470
GNDS
VDD3.3
SCOMP
R153
10K
Q123
DTC114EUA
C146
R01
C145
47/10
L115
L114
C142
R01
C140
47/10
GNDRF
(GNDD)
AC5
L113
C135
R01
C134
100/16
L110
C132
100P
GNDRF
AUD8.4
SMAIN
SSUB
SSUB
MSUB
GNDRF

A-b
A-a

A-a 3/3

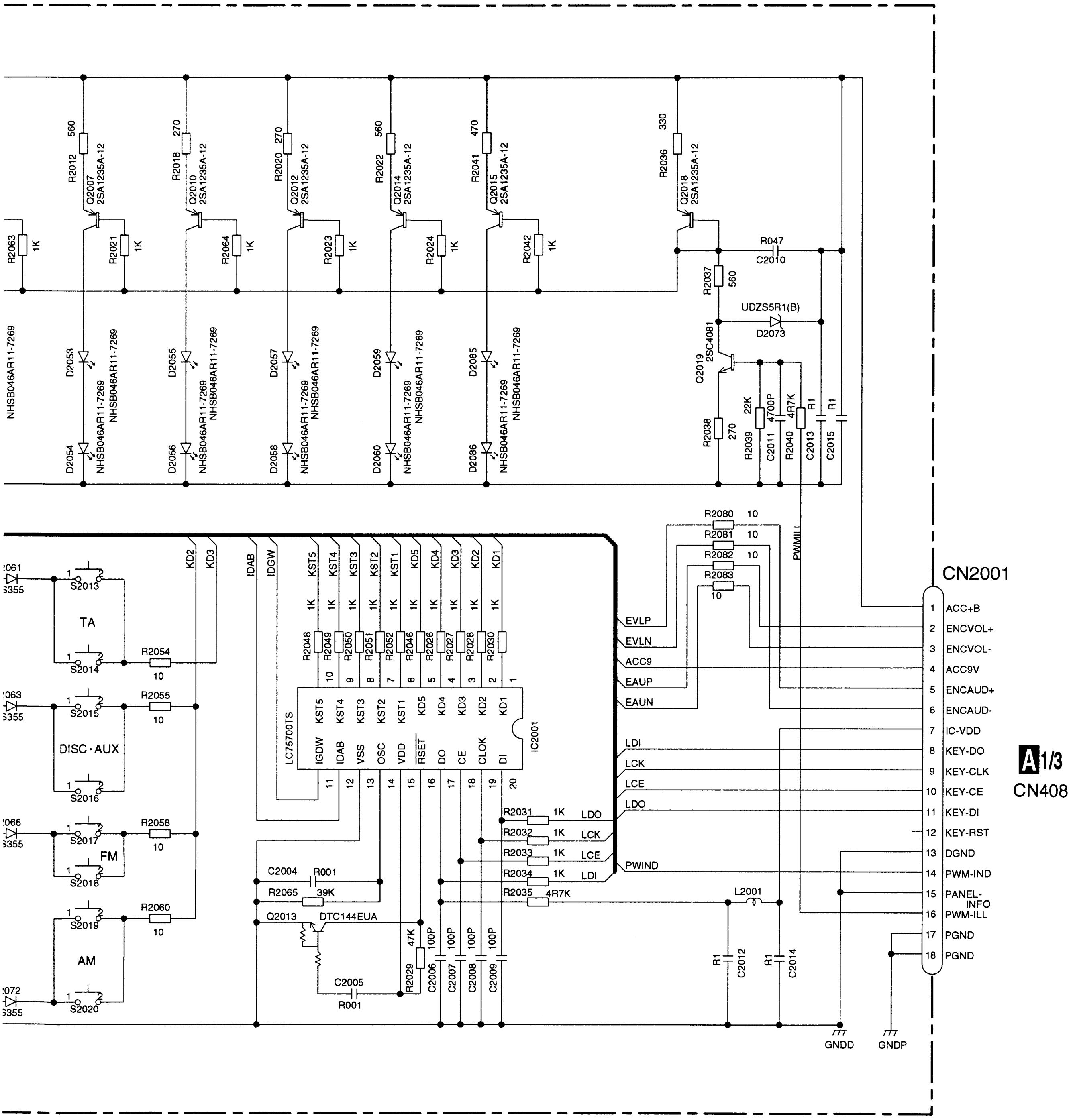
A
B
C
D
E
F

10.4 KEYBOARD PCB


A
B
C
D
E
F
0R0
R2061
VYPY1105W-3C42A
D2006
D2007
VYPY1105W-3C42A
D2002
D2003
VFY1105W-3CX2D
VFY1105W-3CX2D
Q2001
IMX1
1E
1C
1B
2B
2C
2E
270
R2002
82
R2005
Q2002
2SC4081
C2001
R01
R2001
1K
R2003
82
R2004
22K
C2002
4700P
R2006
4R7K
R2007
1K
C2003
R01
330
R2009
Q2004
2SA1235A-12
R2017
1K
330
R2008
Q2003
2SA1235A-12
R2019
1K
560
R2011
Q2006
2SA1235A-12
R2063
1K
560
R2012
Q2007
2SA1235A-12
D2051
D2052
NHSB046AR11-7269
NHSB046AR11-7269
D2053
D2054
NHSB046AR11-7269
GNDP
IDAB
PWIND
IDGW
GNDP
ILL3
ILL1
KD1
KST1
KST2
EAUN
EAUP
GNDD
KD1
GNDP
GNDP
KST3
ILL1
KD4
KST1
KST2
EVLN
EVLP
GNDD
KD4
GNDP
GNDP
KST3
ILL3
KST5
D2076
1SS355
KD5
KD3
KST4
1SS355
D2061
1SS355
S2013
TA
S2014
D2063
1SS355
S2015
DISC·AUX
S2016
D2066
1SS355
S2017
FM
S2018
S2019
AM
D2072
1SS355
S2020
KST3
1SS355
D2031
S2011
LOAD
S2012
1SS355
D2030
S2009
EJECT
S2010
KST2
KST1
GNDD
1SS355
D2001
1SS355
D2004
CN2020
SEEK TRACK DOWN
SEEK TRACK UP
S2003
S2004
S2001
S2002
1SS355
D2014
1SS355
D2015
CN2010
CH DISC DOWN
CH DISC UP
S2007
S2008
S2005
S2006
8 7 6 5 4 3 2 1
C CN2021
to KEYBOARD L PCB
D CN2011
to KEYBOARD R PCB

B

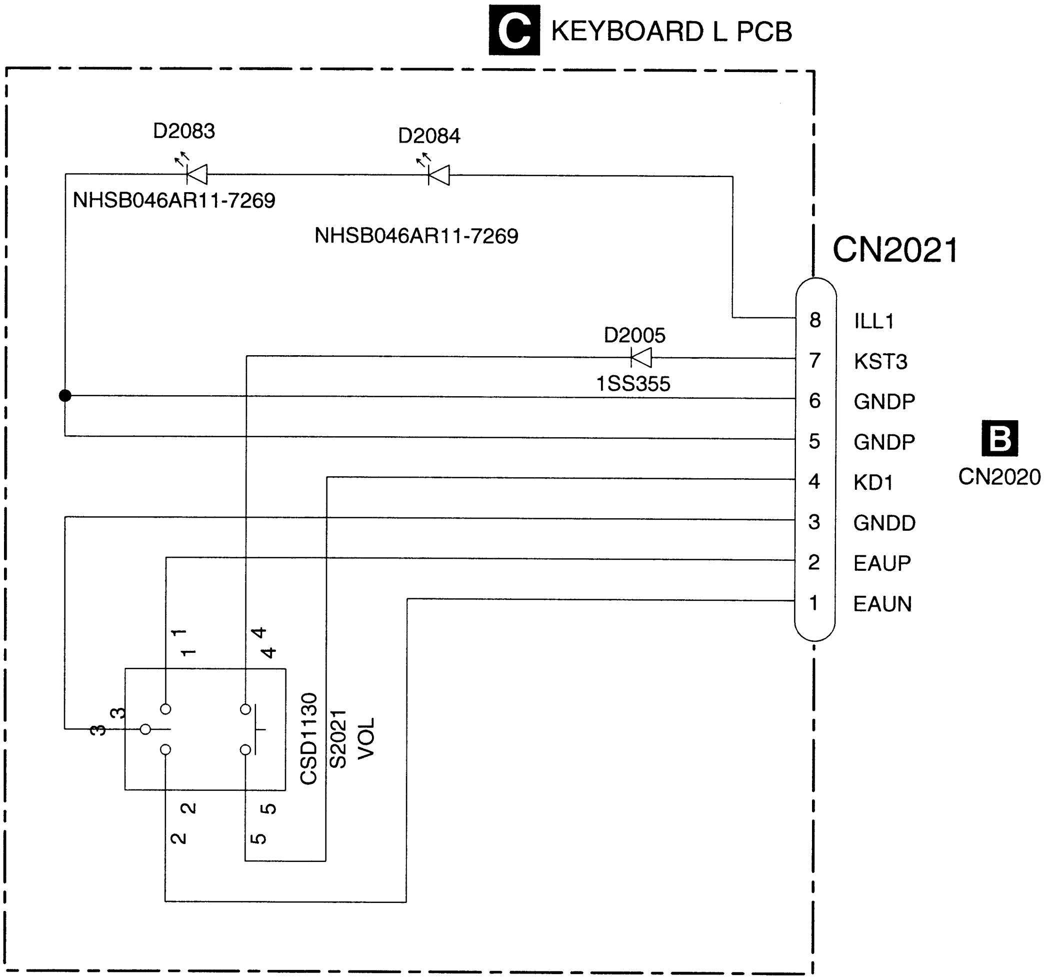
B KEYBOARD PCB


R2012 560
Q2007 2SA1235A-12
R2018 270
Q2010 2SA1235A-12
R2020 270
Q2012 2SA1235A-12
R2022 560
Q2014 2SA1235A-12
R2041 470
Q2015 2SA1235A-12
R2036 330
Q2018 2SA1235A-12
R2063 1K
R2021 1K
R2064 1K
R2023 1K
R2024 1K
R2042 1K
R047
C2010
R2037 560
UDZS5R1(B)
D2073
Q2019 2SC4081
R2038 270
R2039 22K
C2011 4700P
R2040 4R7K
C2013 R1
C2015 R1
D2053
D2054
D2055
D2056
D2057
D2058
D2059
D2060
D2085
D2086
NHSB046AR11-7269
PWMILL
R2080 10
R2081 10
R2082 10
R2083 10
KD2
KD3
IDAB
IDGW
KST5
KST4
KST3
KST2
KST1
KD5
KD4
KD3
KD2
KD1
1K
R2048
R2049
R2050
R2051
R2052
R2046
R2026
R2027
R2028
R2030
LC75700TS
IC2001
IGDW
IDAB
VSS
OSC
VDD
RSET
DO
CE
CLOK
DI
S2013
TA
S2014
R2054 10
S2015
R2055 10
DISC·AUX
S2016
S2017
FM
R2058 10
S2018
S2019
R2060 10
AM
S2020
C2004 R001
R2065 39K
Q2013 DTC144EUA
C2005 R001
R2029 47K
C2006 100P
C2007 100P
C2008 100P
C2009 100P
R2031 1K LDO
R2032 1K LCK
R2033 1K LCE
R2034 1K LDI
R2035 4R7K
EVLP
EVLN
ACC9
EAUP
EAUN
LDI
LCK
LCE
LDO
PWIND
L2001
C2012 R1
C2014 R1
GNDD
GNDP
CN2001
1 ACC+B
2 ENCVOL+
3 ENCVOL-
4 ACC9V
5 ENCAUD+
6 ENCAUD-
7 IC-VDD
8 KEY-DO
9 KEY-CLK
10 KEY-CE
11 KEY-DI
12 KEY-RST
13 DGND
14 PWM-IND
15 PANEL-INFO
16 PWM-ILL
17 PGND
18 PGND
A 1/3
CN408

KEYBOARD UNIT
Consists of KEYBOARD PCB KEYBOARD L PCB KEYBOARD R PCB

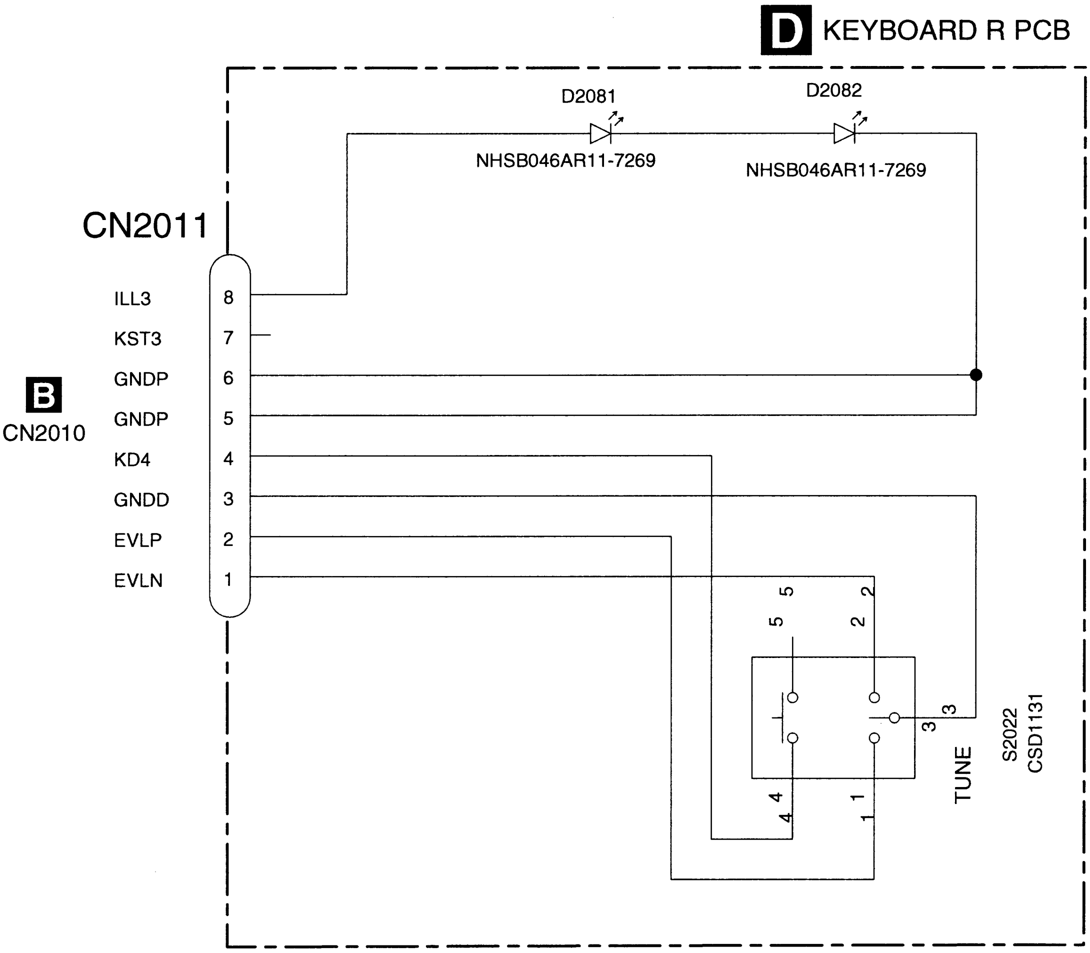
B

10.5 KEYBOARD L PCB


C
KEYBOARD L PCB
D2083
D2084
NHSB046AR11-7269
NHSB046AR11-7269
CN2021
D2005
1SS355
8 ILL1
7 KST3
6 GNDP
5 GNDP
4 KD1
3 GNDD
2 EAUP
1 EAUN
B
CN2020
1
4
3
2
5
CSD1130
S2021
VOL

KEYBOARD UNIT
Consists of KEYBOARD PCB KEYBOARD L PCB KEYBOARD R PCB

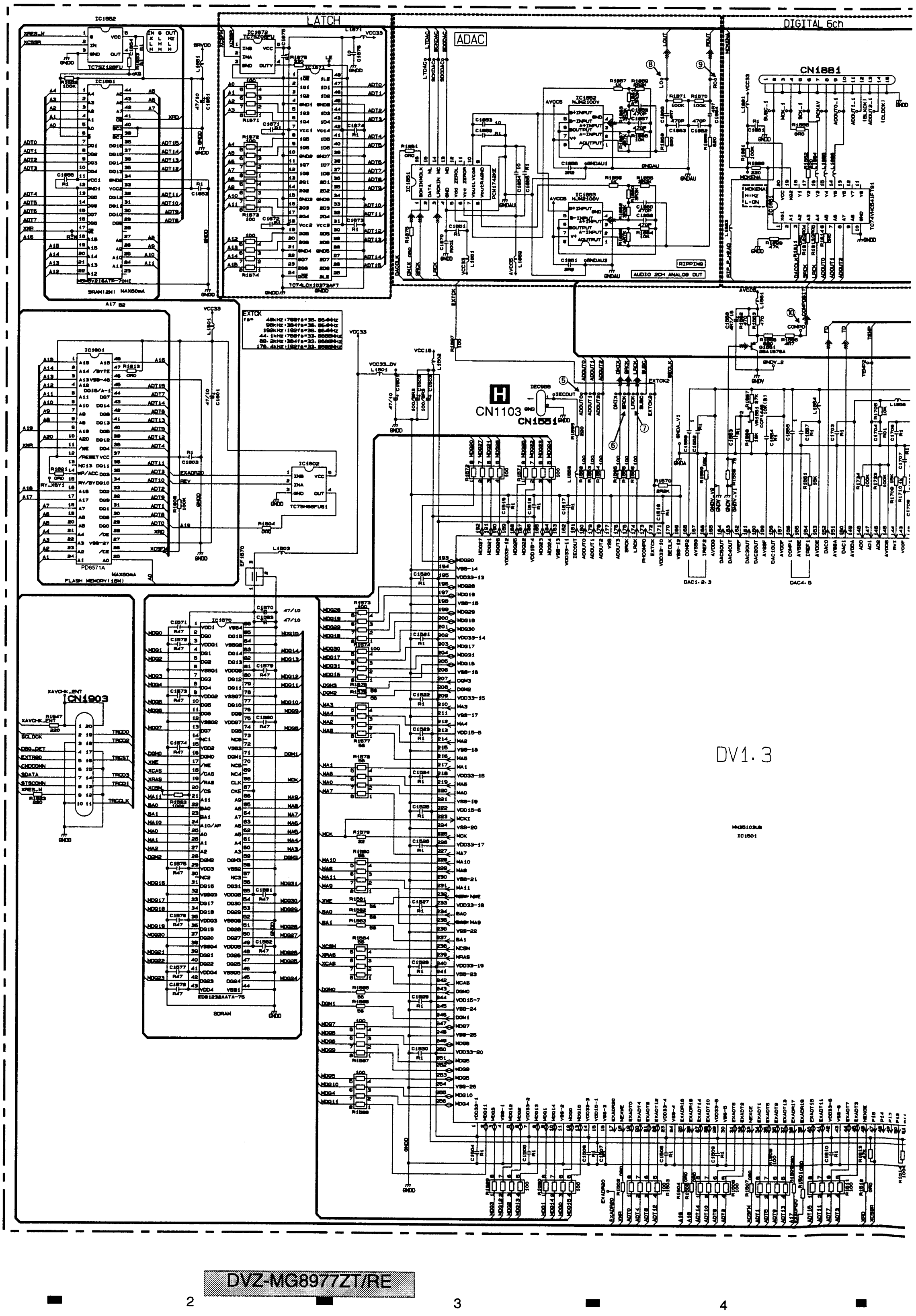
10.6 KEYBOARD R PCB


D
KEYBOARD R PCB
D2081
NHSB046AR11-7269
D2082
NHSB046AR11-7269
CN2011
ILL3
KST3
GNDP
GNDP
KD4
GNDD
EVLP
EVLN
8
7
6
5
4
3
2
1
B
CN2010
5
2
3
4
1
TUNE
S2022
CSD1131

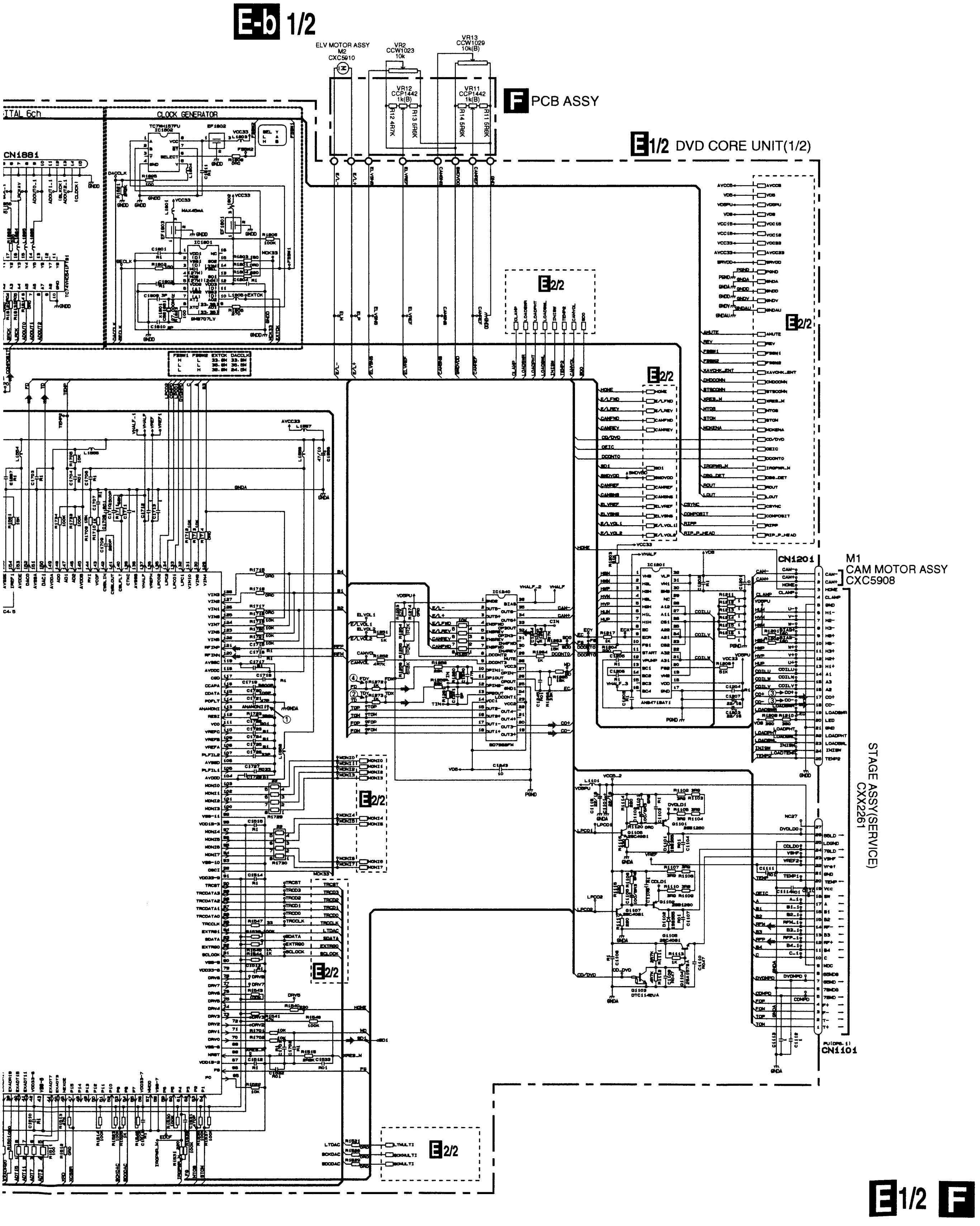
KEYBOARD UNIT
Consists of KEYBOARD PCB KEYBOARD L PCB KEYBOARD R PCB

10.7 DVD CORE UNIT(1/2) AND PCB ASSY(GUIDE PAGE)

E-a 1/2

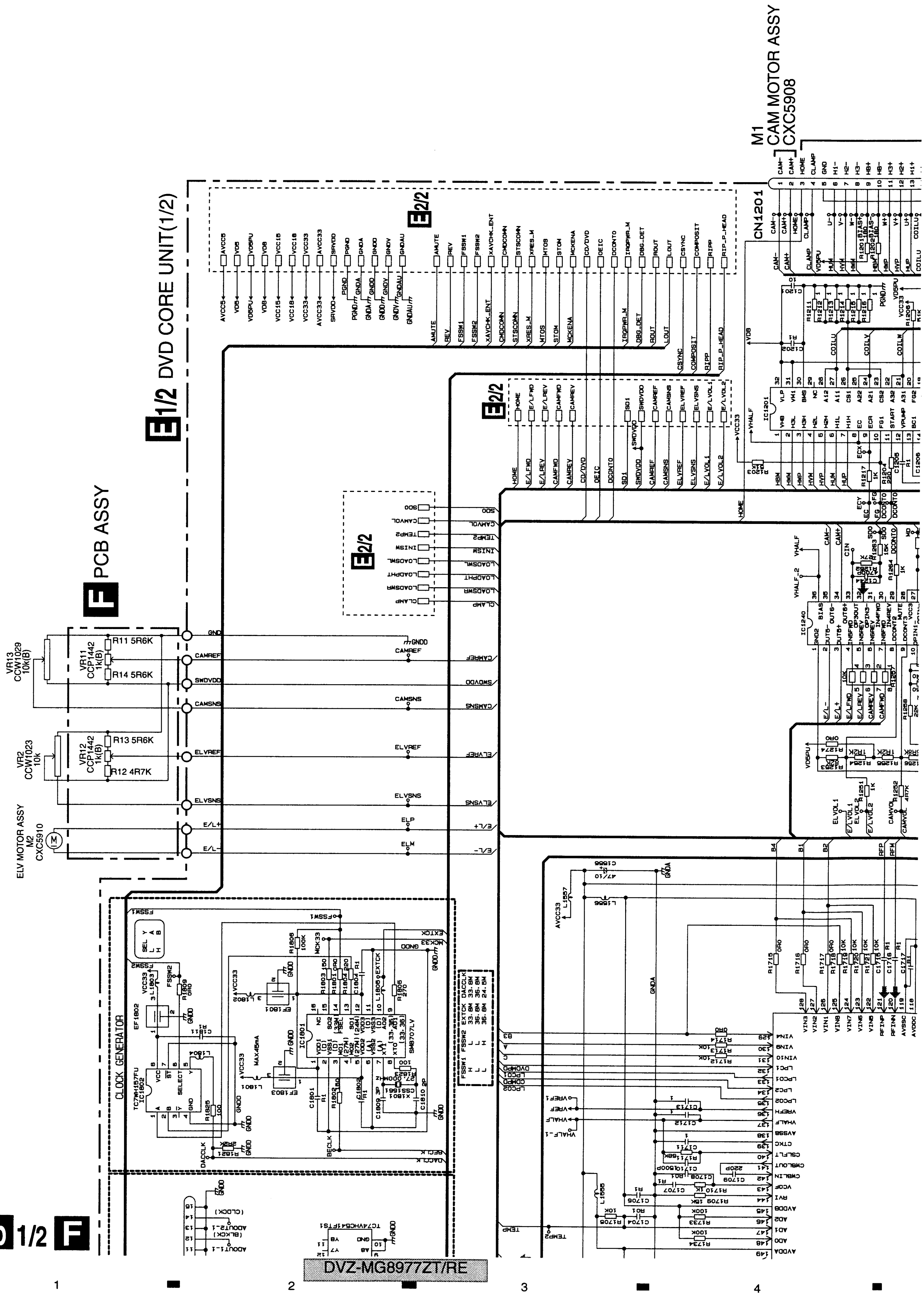

IC1852
TC7SZ126FU
IC1851
SRAM(2M)
LATCH
IC1872
IC1871
TC74LCX16373AFT
ADAC
DIGITAL 6ch
CN1881
IC1852
NJM2100V
IC1853
NJM2100V
PCM1742KE
RIPPING
AUDIO 2CH ANALOG OUT
EXTCK
IC1801
PD6571A
FLASH MEMORY(8M)
IC1802
TC7SH08FU
H
CN1103
CN1551
CN1903
XAVCHK_ENT
IC1870
SDRAM
DV1.3
IC1801
DAC1・2・3
DAC4・5
LOUT
ROUT
COMPO
⑤
⑥
⑦
⑧
⑨
⑩

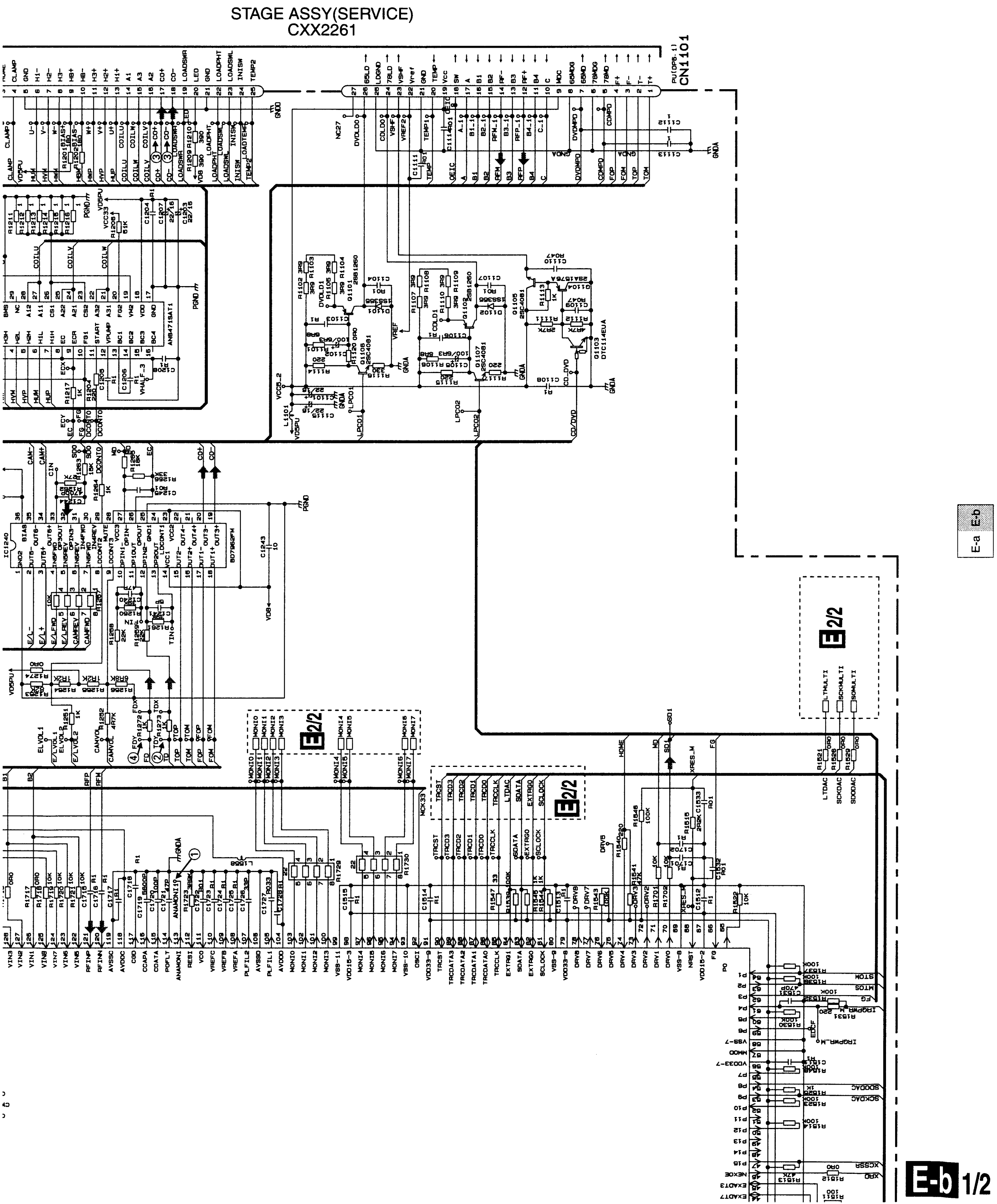
E 1/2


E-b 1/2
ELV MOTOR ASSY
M2
CXC5910
VR2
CCW1023
10k
VR13
CCW1029
10k(B)
VR12
CCP1442
1k(B)
VR11
CCP1442
1k(B)
R12 4R7K
R13 5R6K
R14 5R6K
R11 5R6K
F PCB ASSY
E 1/2 DVD CORE UNIT(1/2)
ITAL 6ch
CLOCK GENERATOR
CN1881
E 2/2
CN1201
M1
CAM MOTOR ASSY
CXC5908
STAGE ASSY(SERVICE)
CXX2261
CN1101
E 1/2
F

A
B
C
D
E
F

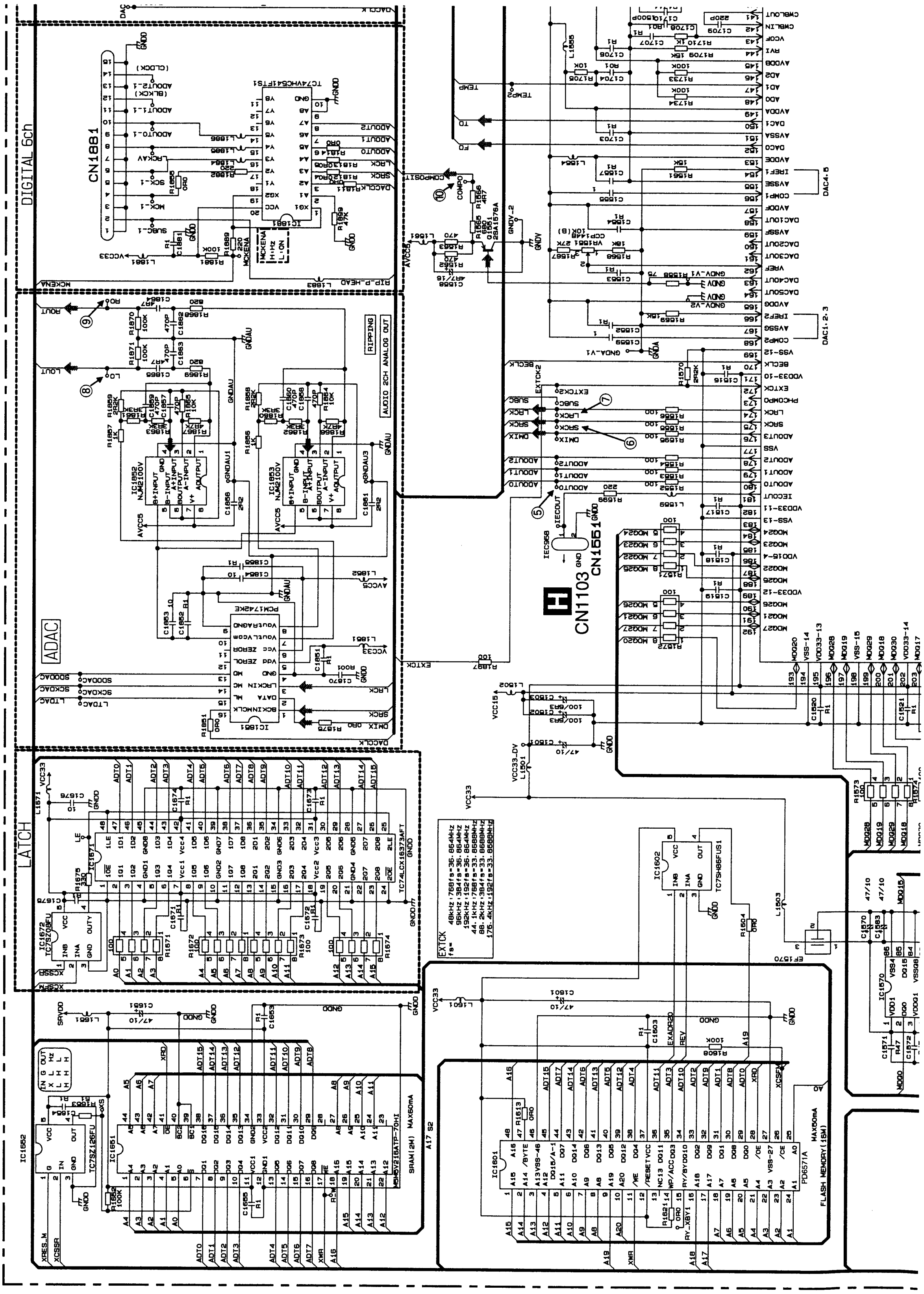
A B C D E F


M1
CAM MOTOR ASSY
CXC5908
CN1201
E 1/2 DVD CORE UNIT(1/2)
E 2/2
F PCB ASSY
IC1201
IC1240
IC1801
SM8707LV
IC1802
TC7WH157FU
CLOCK GENERATOR
EF1801
EF1802
EF1803
VR13
CCW1029
10k(B)
VR11
CCP1442
1k(B)
R11 5R6K
R14 5R6K
VR2
CCW1023
10K
VR12
CCP1442
1k(B)
R13 5R6K
R12 4R7K
ELV MOTOR ASSY
M2
CXC5910
GND
CAMREF
SWDVDD
CAMSNS
ELVREF
ELVSNS
E/L+
E/L-
E-a
E-b

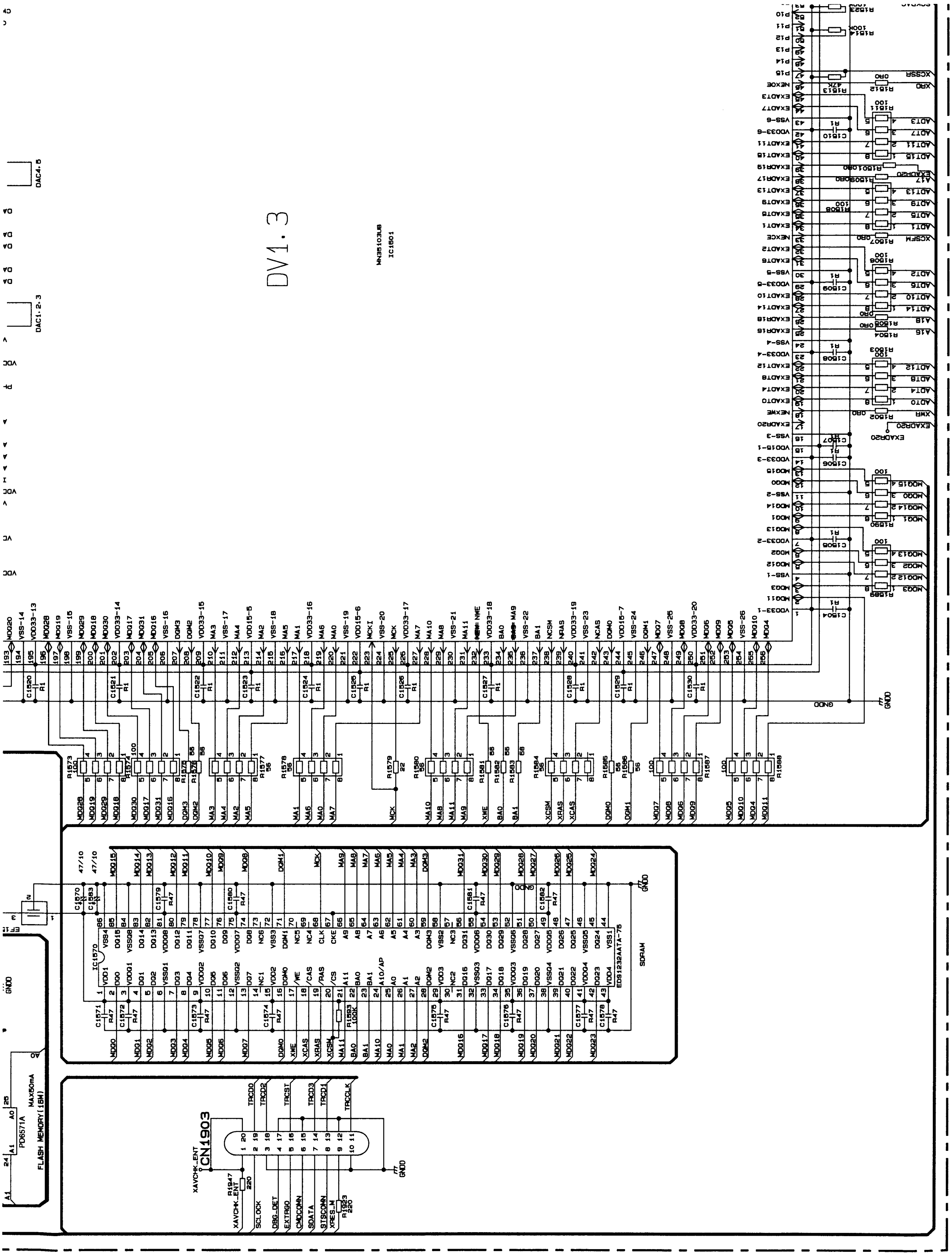

STAGE ASSY(SERVICE)
CXX2261
PU(DPG.1)
CN1101
GNDD
GNDA
PGND
IC1240
BD7962FM
AN8471SAT1
Q1101 2SB1260
Q1102 2SB1260
Q1103 DTC114EUA
Q1104 2SA1576A
Q1105 2SC4081
Q1106 2SC4081
Q1107 2SC4081
L1101
E2/2
E-a
E-b
VDSPU
VD8
CD+
CD-
LTDAC
SCKDAC
SDODAC
XCSSR
MCK33

A
B
C
D
E
F

E-b 1/2 F


A
B
C
D
E
F
DIGITAL 6ch
CN1881
TC74VHC541FTS1
ADAC
PCM1742KE
IC1851
IC1852 NJM2100V
IC1853 NJM2100V
AUDIO 2CH ANALOG OUT
RIPPING
ROUT
LOUT
LATCH
TC74LCX16373AFT
IC1671
IC1672 TC7S08FU
IC1652 TC7SZ126FU
IC1651
SRAM(2M) MAX60mA
IC1601
FLASH MEMORY(16M) MAX50mA
PD6571A
IC1502 TC7SH08FUS1
CN1103
CN1551
H
IEC958
Q1551 2SA1576A
DAC4,5
DAC1,2,3
EXTCK
fs*
48kHz:768fs=36.864MHz
96kHz:384fs=36.864MHz
192kHz:192fs=36.864MHz
44.1kHz:768fs=33.8688MHz
88.2kHz:384fs=33.8688MHz
176.4kHz:192fs=33.8688MHz
VCC33
AVCC5
GNDD
GNDAU

E-a 1/2

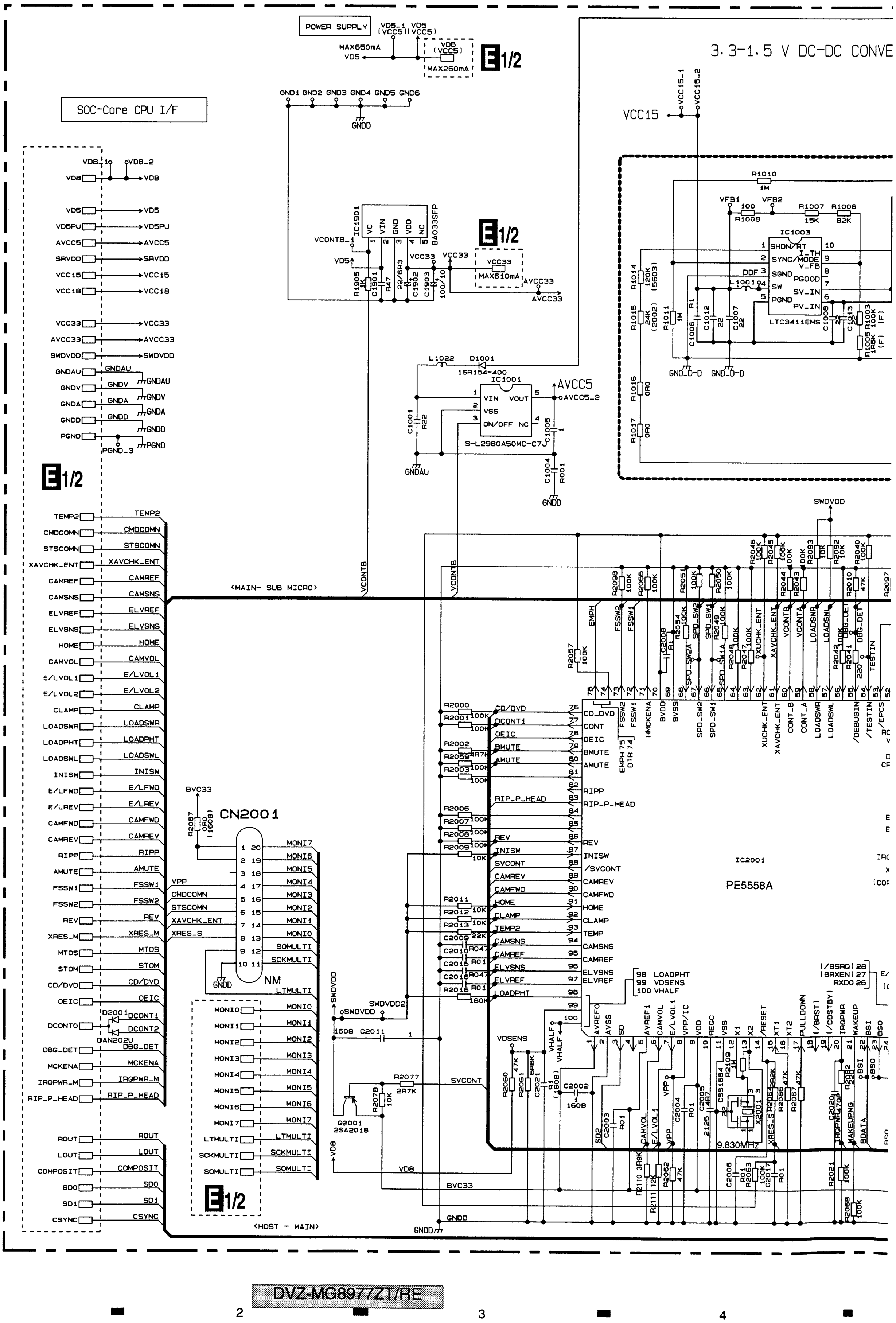

DV1.3
MN35103UB
IC1501
DAC4.5
DAC1.2.3
IC1570
EDS1232AATA-75
SDRAM
47/10
C1570
C1583
C1579
C1580
C1581
C1582
C1571
C1572
C1573
C1574
C1575
C1576
C1577
C1578
R47
R1593
100K
GNDD
CN1903
XAVCHK_ENT
R1947
220
R1923
220
SCLOCK
DBG_DET
EXTRG0
CMDCOMN
SDATA
STSCOMN
XRES_M
TRCD0
TRCD2
TRCST
TRCD3
TRCD1
TRCCLK
PD6571A
FLASH MEMORY(16M)
MAX50mA
A1
A0
24
25
MCK
XWE
BA0
BA1
XCSM
XRAS
XCAS
DQM0
DQM1
DQM2
DQM3
MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA8
MA9
MA10
MA11
MDQ0
MDQ1
MDQ2
MDQ3
MDQ4
MDQ5
MDQ6
MDQ7
MDQ8
MDQ9
MDQ10
MDQ11
MDQ12
MDQ13
MDQ14
MDQ15
MDQ16
MDQ17
MDQ18
MDQ19
MDQ20
MDQ21
MDQ22
MDQ23
MDQ24
MDQ25
MDQ26
MDQ27
MDQ28
MDQ29
MDQ30
MDQ31
EXADR20
XCSFM
XCSSR
XRD
XWR
NEXCE
NEXOE
NEXWE

E-b 1/2

E-a E-b

E-a 1/2

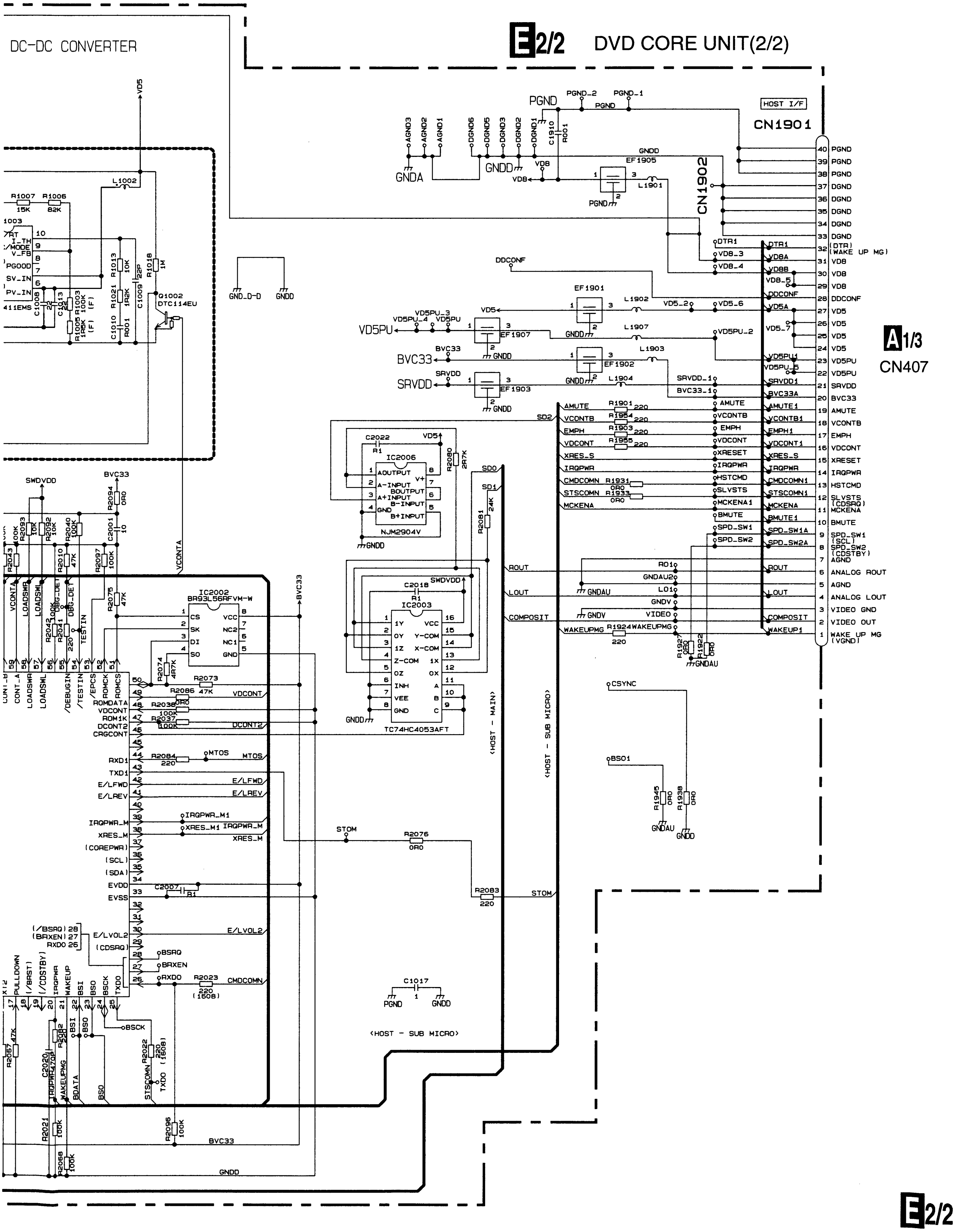
10.8 DVD CORE UNIT(2/2)



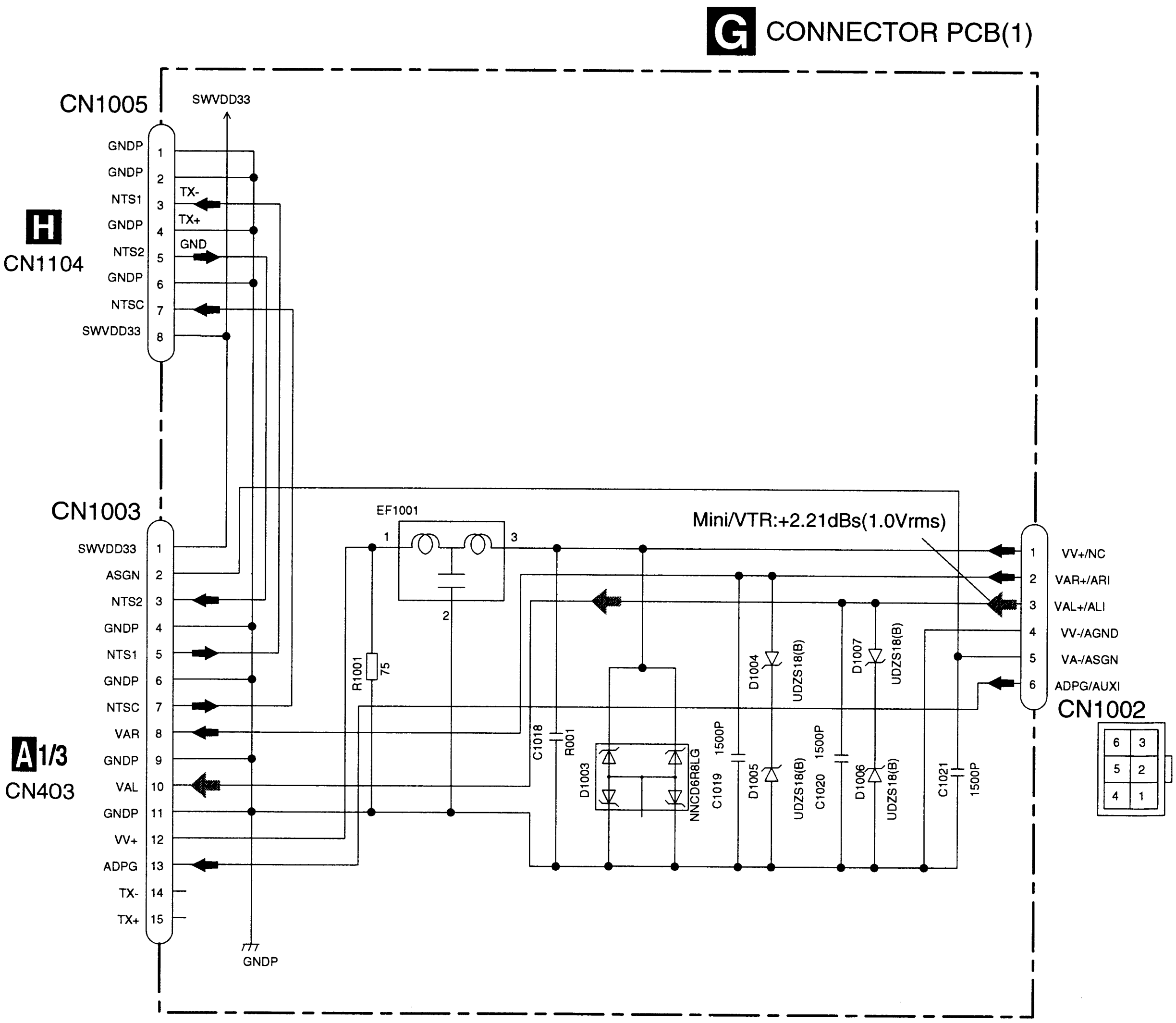
POWER SUPPLY
SOC-Core CPU I/F
3.3-1.5 V DC-DC CONVE
VCC15
E1/2
IC1901
BA033SFP
IC1001
S-L2980A50MC-C7
AVCC5
IC1003
LTC3411EMS
CN2001
NM
<MAIN- SUB MICRO>
<HOST - MAIN>
IC2001
PE5558A
Q2001
2SA2018
9.830MHz
D2001
DAN202U
GNDD
SWDVDD
BVC33
VDSENS
TEMP2
CMDCOMN
STSCOMN
XAVCHK_ENT
CAMREF
CAMSNS
ELVREF
ELVSNS
HOME
CAMVOL
E/LVOL1
E/LVOL2
CLAMP
LOADSWR
LOADPHT
LOADSWL
INISW
E/LFWD
E/LREV
CAMFWD
CAMREV
RIPP
AMUTE
FSSW1
FSSW2
REV
XRES_M
MTOS
STOM
CD/DVD
OEIC
DCONT0
DBG_DET
MCKENA
IRQPWR_M
RIP_P_HEAD
ROUT
LOUT
COMPOSIT
SD0
SD1
CSYNC
MONI0
MONI1
MONI2
MONI3
MONI4
MONI5
MONI6
MONI7
LTMULTI
SCKMULTI
SOMULTI
VD8
VD5
VD5PU
AVCC5
SRVDD
VCC15
VCC18
VCC33
AVCC33
SWDVDD
GNDAU
GNDV
GNDA
GNDD
PGND

E2/2

E 2/2 DVD CORE UNIT(2/2)

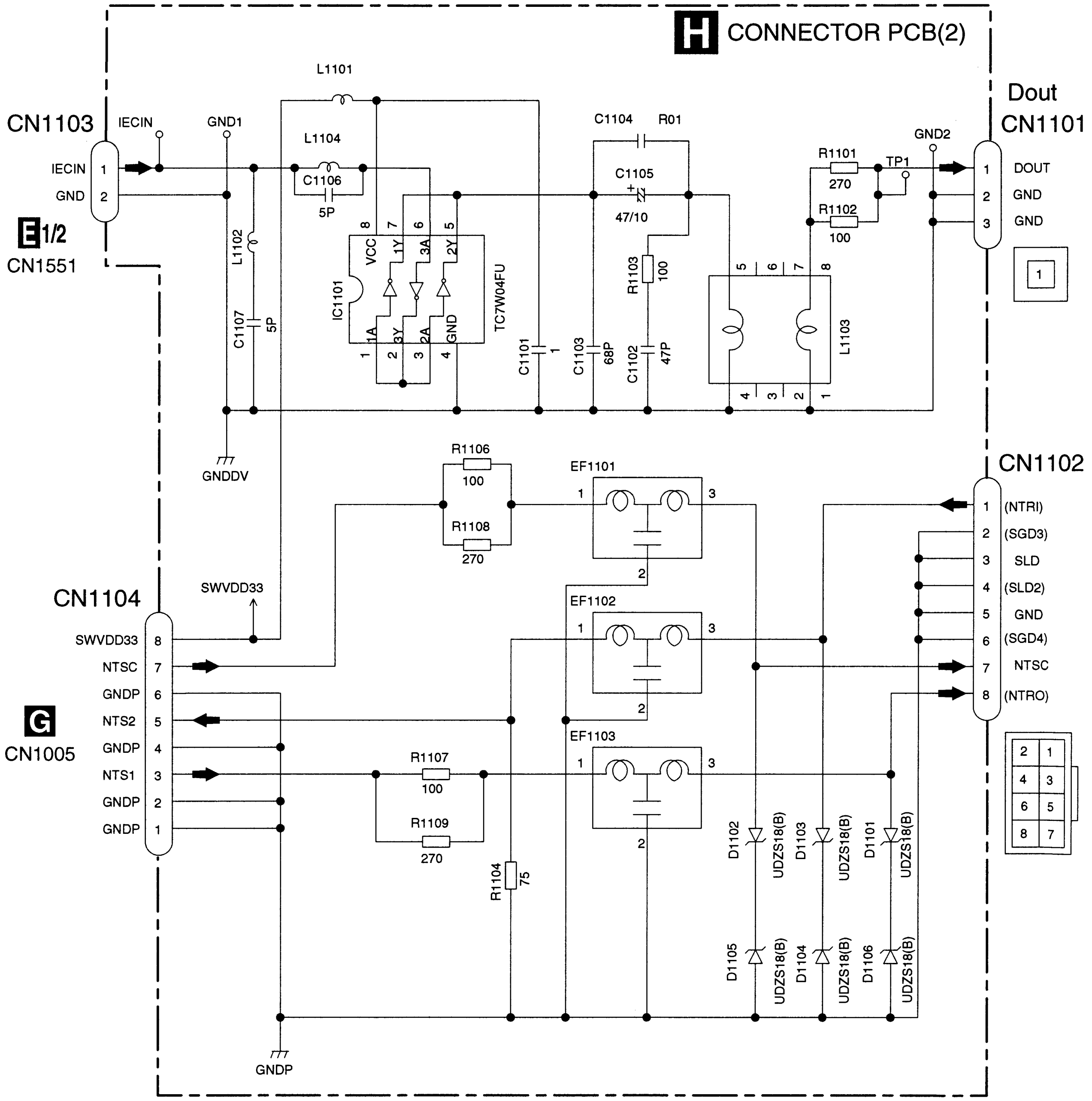

DC-DC CONVERTER
VD5
L1002
R1007 15K
R1006 82K
PGOOD
SV_IN
PV_IN
R1013 10K
R1018 1M
R1021 1R2K
C1009 22P
Q1002 DTC114EU
GND_D-D
GNDD
PGND
PGND_2
PGND_1
HOST I/F
CN1901
AGND3
AGND2
AGND1
DGND6
DGND5
DGND3
DGND2
DGND1
C1910
R001
GNDA
GNDD
VD8
EF1905
L1901
CN1902
DTR1
VD8_3
VD8_4
DDCONF
EF1901
L1902
VD5_2
VD5_6
VD5PU_3
VD5PU_4
VD5PU
EF1907
L1907
VD5PU_2
BVC33
L1903
EF1902
SRVDD
EF1903
L1904
SRVDD_1
BVC33_1
SD2
AMUTE
VCONTB
EMPH
VDCONT
XRES_S
IRQPWR
CMDCOMN
STSCOMN
MCKENA
R1901 220
R1954 220
R1903 220
R1955 220
R1931 0R0
R1933 0R0
XRESET
HSTCMD
SLVSTS
MCKENA1
BMUTE
SPD_SW1
SPD_SW2
C2022
IC2006
NJM2904V
R2080 2R7K
SD0
SD1
R2081 24K
SWDVDD
C2018
IC2003
TC74HC4053AFT
ROUT
LOUT
COMPOSIT
GNDAU
GNDV
WAKEUPMG
R1924 220
R1927
R1922 0R0
CSYNC
BSO1
R1945 0R0
R1938 0R0
A1/3
CN407
40 PGND
39 PGND
38 PGND
37 DGND
36 DGND
35 DGND
34 DGND
33 DGND
32 (DTR) (WAKE UP MG)
31 VD8
30 VD8
29 VD8
28 DDCONF
27 VD5
26 VD5
25 VD5
24 VD5
23 VD5PU
22 VD5PU
21 SRVDD
20 BVC33
19 AMUTE
18 VCONTB
17 EMPH
16 VDCONT
15 XRESET
14 IRQPWR
13 HSTCMD
12 SLVSTS (CDSRQ)
11 MCKENA
10 BMUTE
9 SPD_SW1 (SCL)
8 SPD_SW2 (CDSTBY)
7 AGND
6 ANALOG ROUT
5 AGND
4 ANALOG LOUT
3 VIDEO GND
2 VIDEO OUT
1 WAKE UP MG (VGND)
SWDVDD
BVC33
R2094 0R0
R2092 10K
R2040 100K
C2001 10
R2010 47K
R2097 100K
R2075 47K
VCONTA
IC2002
BR93L56RFVM-W
CS
SK
DI
SO
VCC
NC2
NC1
GND
R2074 4R7K
R2073 47K
R2086 0R0
R2038 100K
R2037 100K
VDCONT
DCONT2
ROMDATA
ROM1K
CRGCONT
RXD1
TXD1
E/LFWD
E/LREV
R2084 220
MTOS
IRQPWR_M
XRES_M
IRQPWR_M1
XRES_M1
(COREPWR)
(SCL)
(SDA)
EVDD
EVSS
C2007
STOM
R2076 0R0
R2083 220
E/LVOL2
(CDSRQ)
BSRQ
BRXEN
RXD0
R2023 220 (1608)
CMDCOMN
(/BSRQ) 28
(BRXEN) 27
RXD0 26
PULLDOWN
(/BRST)
(/CDSTBY)
IRQPWR
WAKEUP
BSI
BSO
BSCK
TXD0
R2022 220 (1608)
STSCOMN
R2067 47K
C2020
R2082
WAKEUPMG
BDATA
R2096 100K
R2021 100K
R2068 100K
BVC33
GNDD
C1017
PGND
GNDD
(HOST - MAIN)
(HOST - SUB MICRO)
(HOST - SUB MICRO)
A
B
C
D
E
F
E2/2

10.9 CONNECTOR PCB(1)


G CONNECTOR PCB(1)
CN1005
SWVDD33
GNDP 1
GNDP 2
NTS1 3
GNDP 4
NTS2 5
GNDP 6
NTSC 7
SWVDD33 8
TX-
TX+
GND
H
CN1104
CN1003
SWVDD33 1
ASGN 2
NTS2 3
GNDP 4
NTS1 5
GNDP 6
NTSC 7
VAR 8
GNDP 9
VAL 10
GNDP 11
VV+ 12
ADPG 13
TX- 14
TX+ 15
A1/3
CN403
GNDP
EF1001
1
2
3
R1001
75
C1018
R001
D1003
NNCD6R8LG
C1019
1500P
D1004
UDZS18(B)
D1005
UDZS18(B)
C1020
1500P
D1007
UDZS18(B)
D1006
UDZS18(B)
C1021
1500P
Mini/VTR:+2.21dBs(1.0Vrms)
1 VV+/NC
2 VAR+/ARI
3 VAL+/ALI
4 VV-/AGND
5 VA-/ASGN
6 ADPG/AUXI
CN1002
6 3
5 2
4 1

CONNECTOR UNIT
Consists of
CONNECTOR PCB(1)
CONNECTOR PCB(2)

10.10 CONNECTOR PCB(2)


H CONNECTOR PCB(2)
CN1103
IECIN
GND
E 1/2
CN1551
GND1
GNDDV
L1101
L1104
C1106
5P
L1102
C1107
5P
IC1101
TC7W04FU
VCC
1Y
3A
2Y
1A
3Y
2A
GND
C1101
1
C1104
R01
C1105
47/10
R1103
100
C1103
68P
C1102
47P
L1103
GND2
R1101
270
TP1
R1102
100
Dout
CN1101
DOUT
GND
GND
CN1102
(NTRI)
(SGD3)
SLD
(SLD2)
GND
(SGD4)
NTSC
(NTRO)
R1106
100
R1108
270
EF1101
EF1102
EF1103
R1107
100
R1109
270
R1104
75
D1102
D1103
D1101
D1105
D1104
D1106
UDZS18(B)
CN1104
SWVDD33
NTSC
GNDP
NTS2
GNDP
NTS1
GNDP
GNDP
SWVDD33
G
CN1005
GNDP

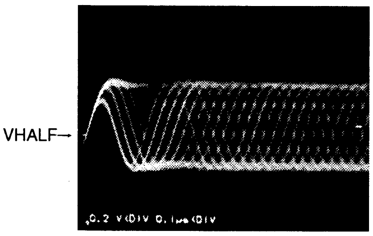
CONNECTOR UNIT
Consists of CONNECTOR PCB(1) CONNECTOR PCB(2)

10.11 WAVEFORMS

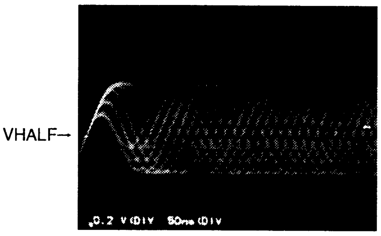
● DVD CORE UNIT Waveforms

Note:1. The encircled number denote measuring pointes in the circuit diagram.
2. Reference voltage VHALF : 1.65 V (TD1,FD1,CRGDRV)
: 2 V Center (ANAMONI1)
In this waveform, it is seeing on the GND standard.
Offset of 1.65 V or 2 V is put in.

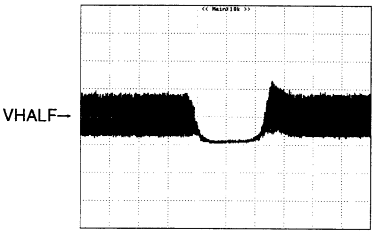
① ANAMONI1 0.2V/div. 0.1µs/div.
CDRF



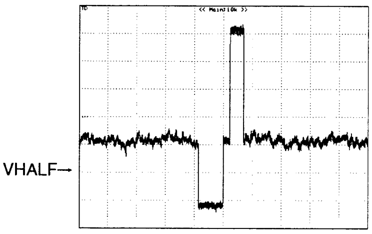
① ANAMONI1 0.2V/div. 0.1µs/div.
DVDRF



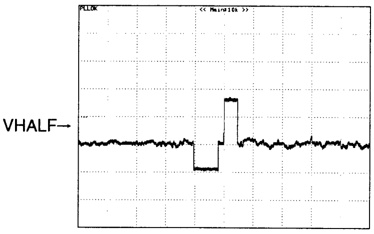
① ANAMONI1 0.5V/div. 100µs/div.
DVDRF(BD1mm)



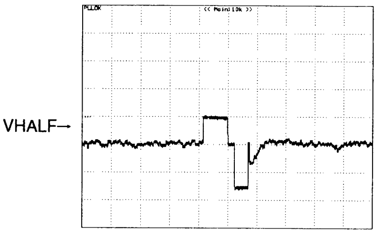
② TDY 0.2V/div. 100µs/div.
Interval



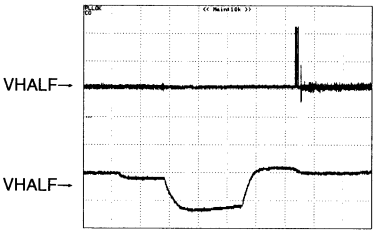
② TDY 0.5V/div. 100µs/div.
Interval FWD



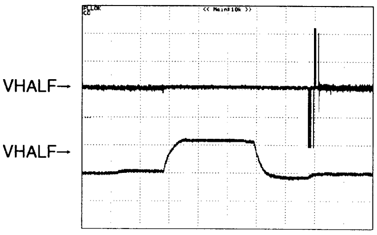
② TDY 0.5V/div. 100µs/div.
Interval REV



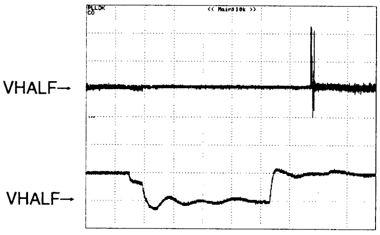
② CH1: TDY 0.5V/div.5ms/div.
③ CH2:(CO+)-(CO-) 2.0V/div.5ms/div.
Traverse501FWD



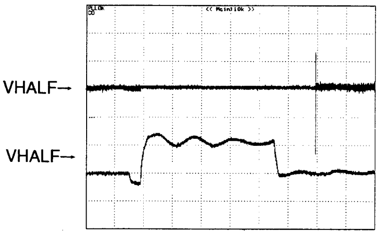
② CH1: TDY 0.5V/div.5ms/div.
③ CH2:(CO+)-(CO-) 2.0V/div.5ms/div.
Traverse501REV



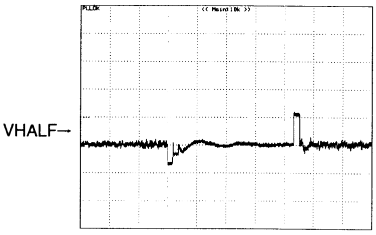
② CH1: TDY 0.5V/div.5ms/div.
③ CH2:(CO+)-(CO-) 2.0V/div.5ms/div.
Traverse5000FWD



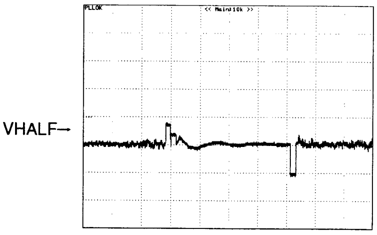
② CH1: TDY 0.5V/div.5ms/div.
③ CH2:(CO+)-(CO-) 2.0V/div.5ms/div.
Traverse5000REV



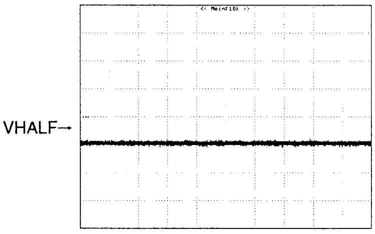
② TDY 0.5V/div.500µs/div.
Multi 32FWD



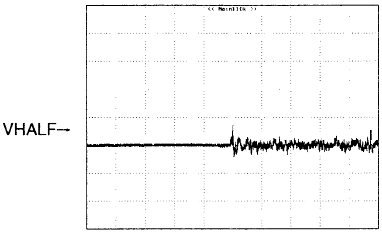
② TDY 0.5V/div.500µs/div.
Multi 32REV



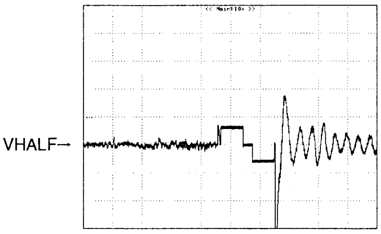
② TDY 0.5V/div.20ms/div.
Play TD



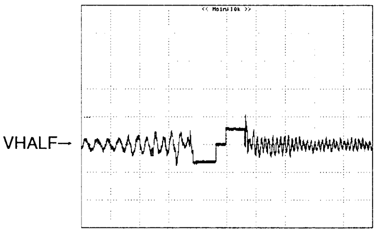
④ FDY 0.5V/div. 1ms/div.
Focus close



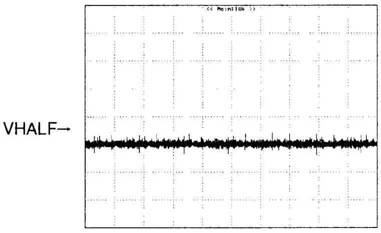
④ FDY 0.5V/div.500μs/div.
Focus jamp L 0 → L1



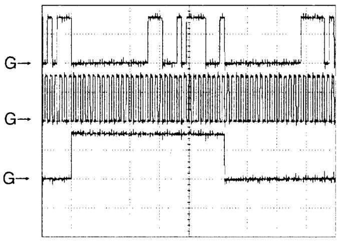
④ FDY 0.5V/div.500μs/div.
Focus jamp L1 → L 0



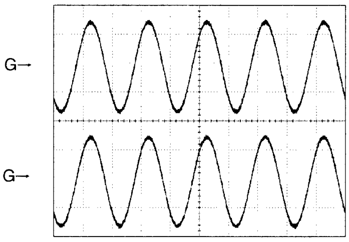
④ FDY 0.5V/div.20ms/div.
Play TD



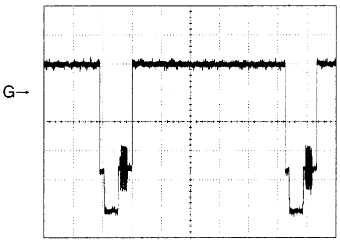
⑤ CH1: ADOUT0
⑥ CH2: SRCK 2V/div. 2μs/div.
⑦ CH3: LRCK



⑧ CH1: LO
⑨ CH2: RO 1V/div. 500μs/div.



⑩ CH1: COMPO 200mV/div. 10μs/div.
[White 100% output]

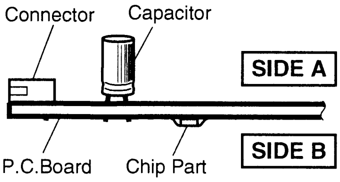


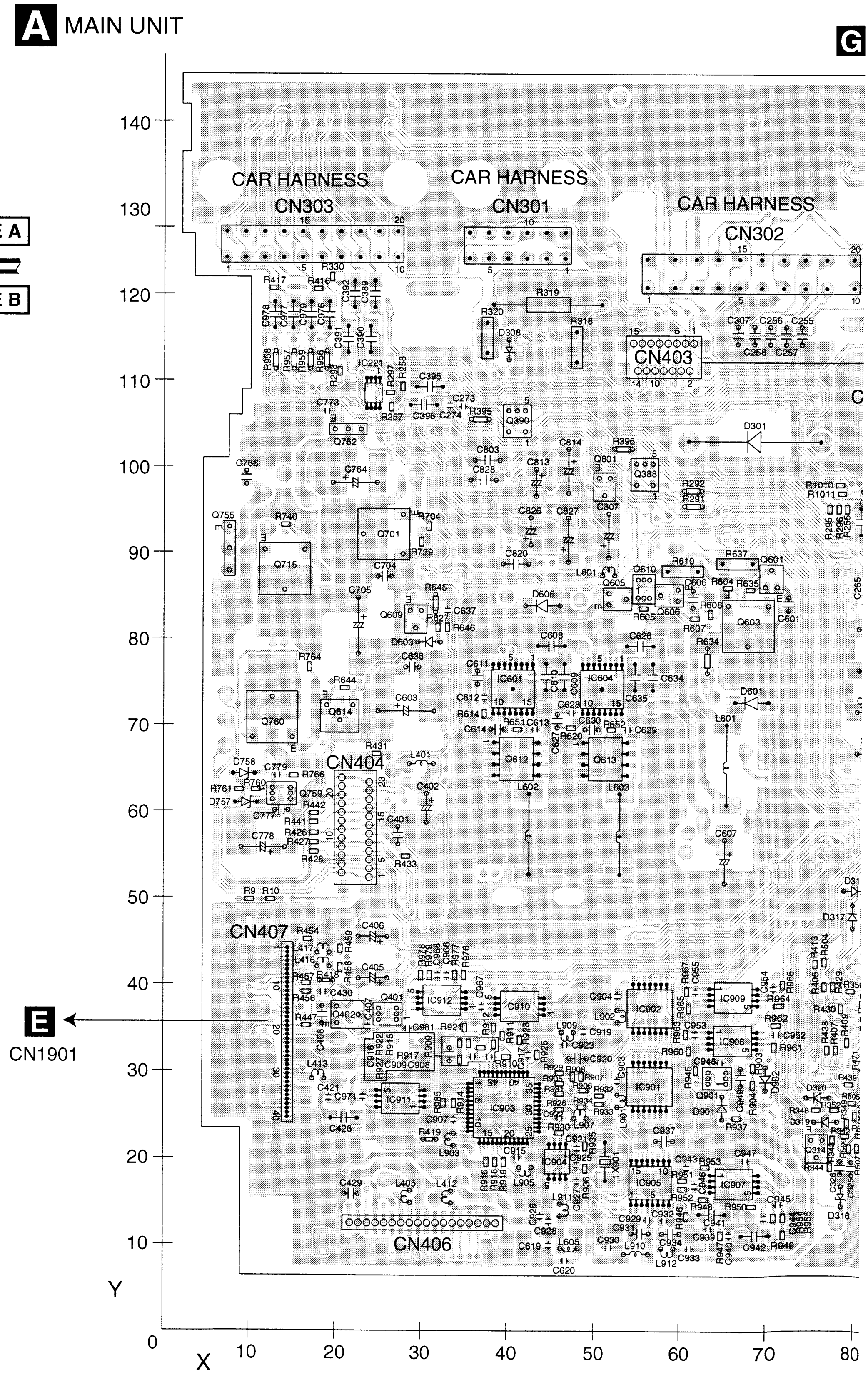
11. PCB CONNECTION DIAGRAM

11.1 MAIN UNIT

NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams

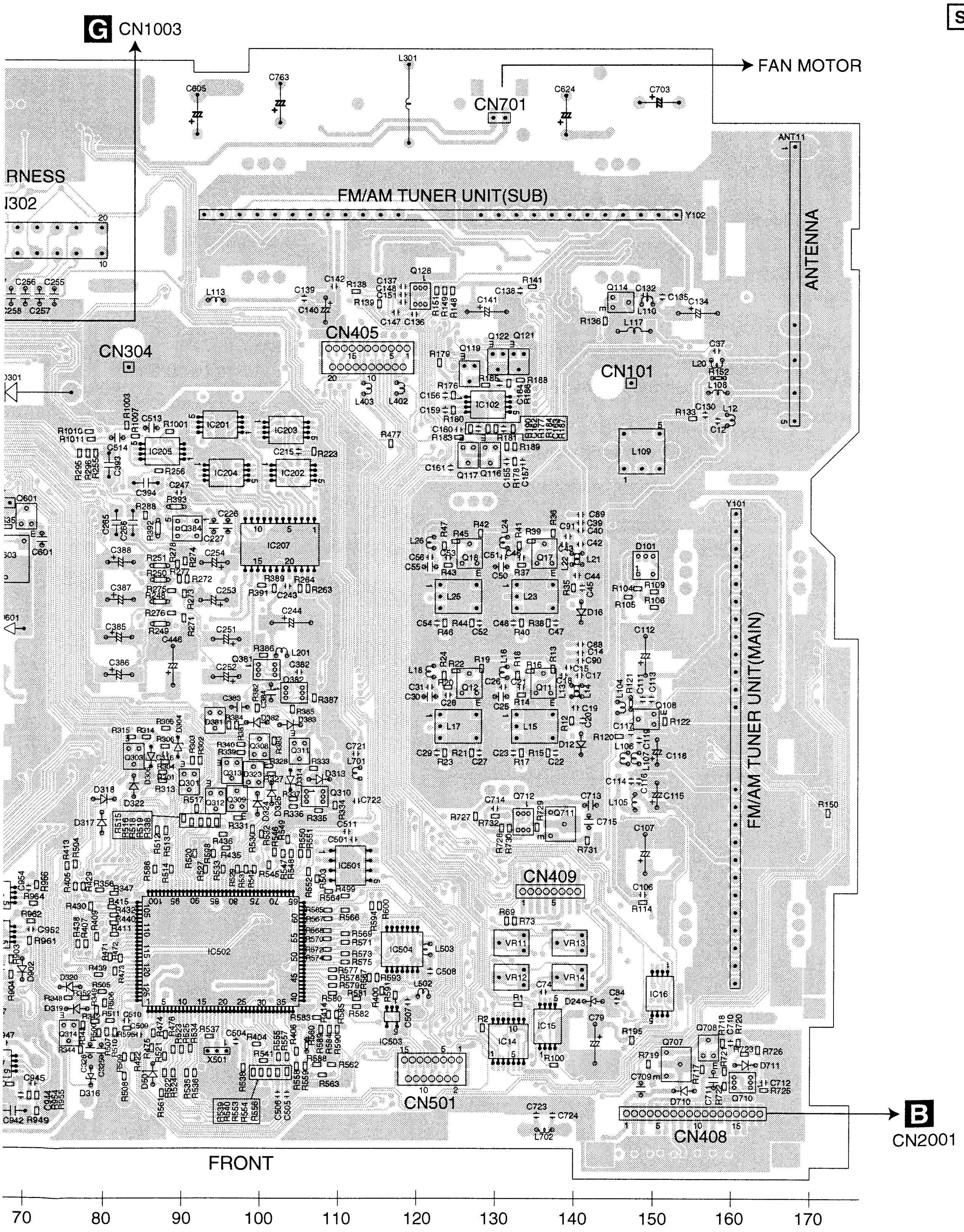

Connector
Capacitor
SIDE A
SIDE B
P.C.Board
Chip Part


A MAIN UNIT
G
CAR HARNESS
CN303
CAR HARNESS
CN301
CAR HARNESS
CN302
CN403
CN404
CN407
CN406
E
CN1901
Q701
Q715
Q760
Q755
Q762
Q390
Q388
Q801
Q610
Q605
Q606
Q601
Q603
Q609
Q614
Q612
Q613
Q759
Q401
Q402
D301
D308
D606
D603
D601
D758
D757
IC221
IC601
IC604
IC912
IC910
IC902
IC909
IC908
IC911
IC903
IC901
IC904
IC905
IC907
R319
R320
R318
R292
R291
L601
L602
L603
L401
L801
X901
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
0
X
10
20
30
40
50
60
70
80

A

SIDE A

B


G CN1003
FAN MOTOR
CN701
L301
C605
C763
C624
C703
ANT11
RNESS
I302
FM/AM TUNER UNIT(SUB)
Y102
ANTENNA
CN304
CN405
CN101
L109
IC201
IC203
IC205
IC204
IC202
IC207
IC102
Q128
Q114
Q119
Q122
Q121
Q117
Q116
Q601
Y101
D101
Q18
Q17
L26
L23
Q12
Q11
L17
L15
Q108
FM/AM TUNER UNIT(MAIN)
Q712
Q711
CN409
IC501
IC502
IC504
VR11
VR13
VR12
VR14
IC14
IC15
IC16
IC503
X501
CN501
Q707
Q708
Q710
D711
CN408
B CN2001
L702
FRONT
70
80
90
100
110
120
130
140
150
160
170

C

D

E

F

A

A

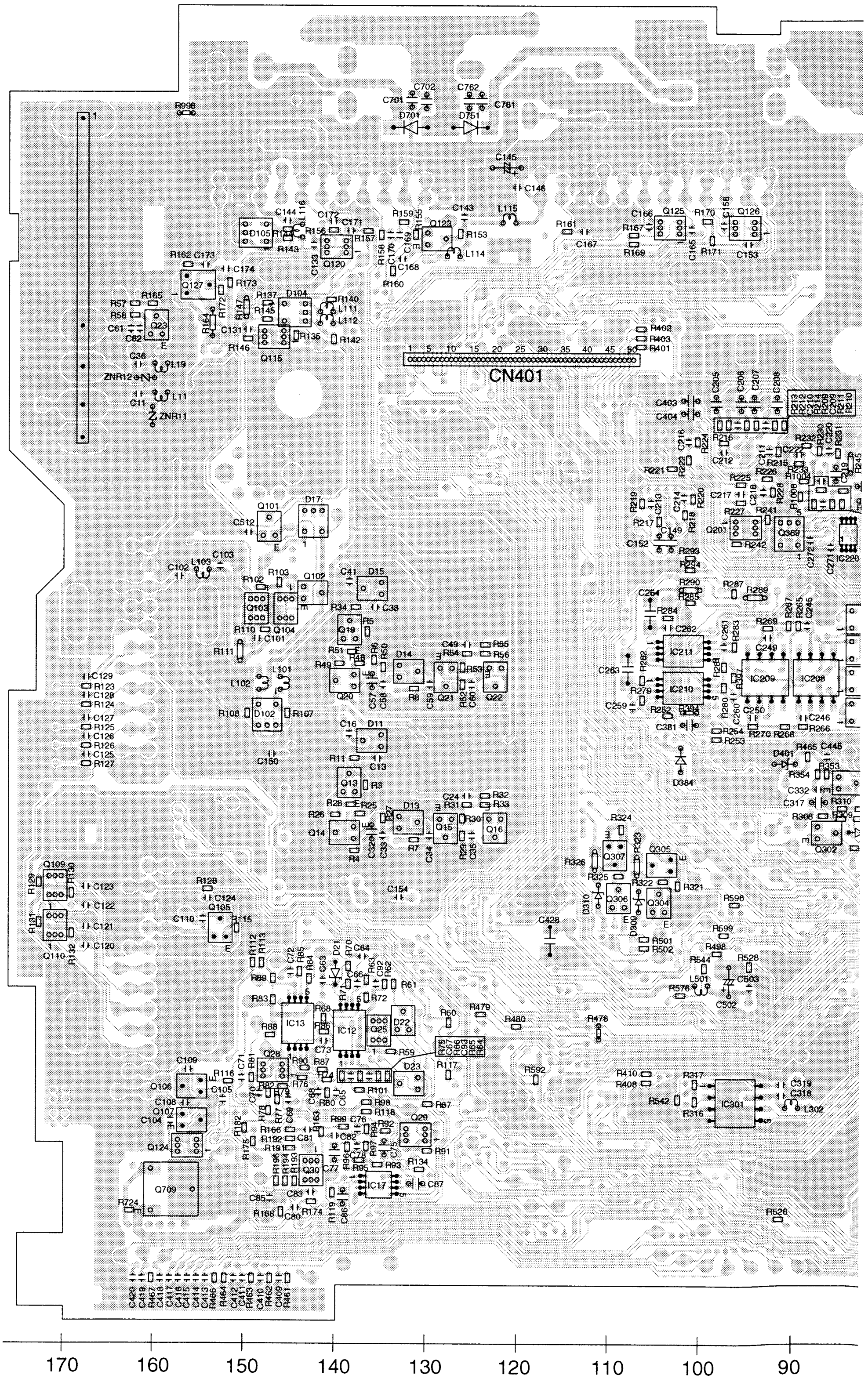
A MAIN UNIT

B

C

D

E

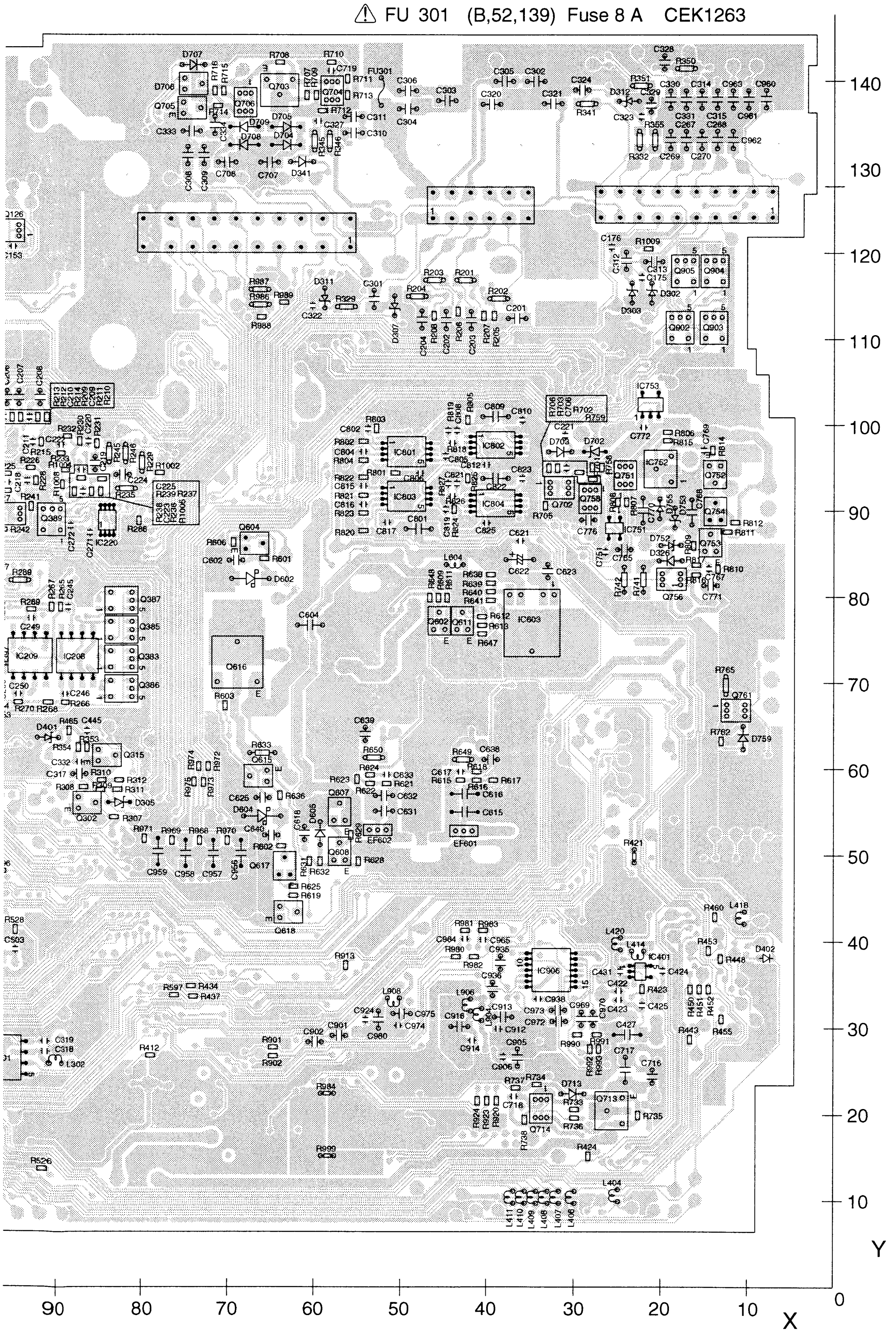

CN401
1
5
10
15
20
25
30
35
40
45
50
IC13
IC12
IC17
IC301
IC211
IC210
IC209
IC208
IC220
Q709
Q120
Q122
Q125
Q126
Q127
Q101
Q102
Q103
Q104
Q105
Q106
Q107
Q109
Q110
Q124
D17
D15
D14
D13
D11
D102
D104
D105
D701
D751
C701
C702
C762
C761
C145
C146
L115
L114
ZNR11
ZNR12
L11
L19
170
160
150
140
130
120
110
100
90

F

A

SIDE B

⚠ FU 301 (B,52,139) Fuse 8 A CEK1263


140
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
0
90
80
70
60
50
40
30
20
10
X
FU301
IC601
IC602
IC603
IC604
IC603
IC753
IC762
IC751
IC209
IC208
IC220
IC906
IC401
Q616
Q713
Q714

B

C

D

E

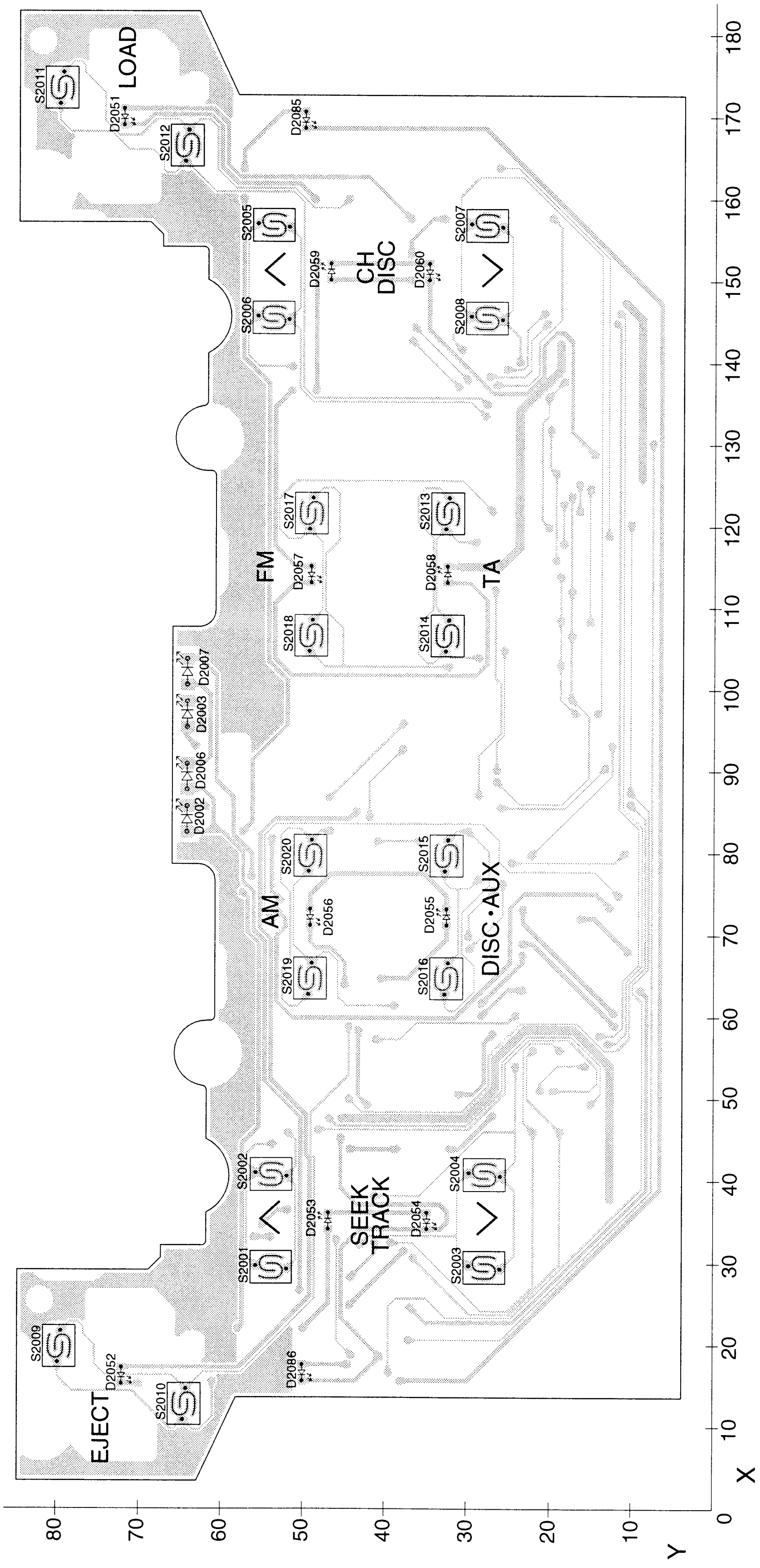
F

A

11.2 KEYBOARD PCB

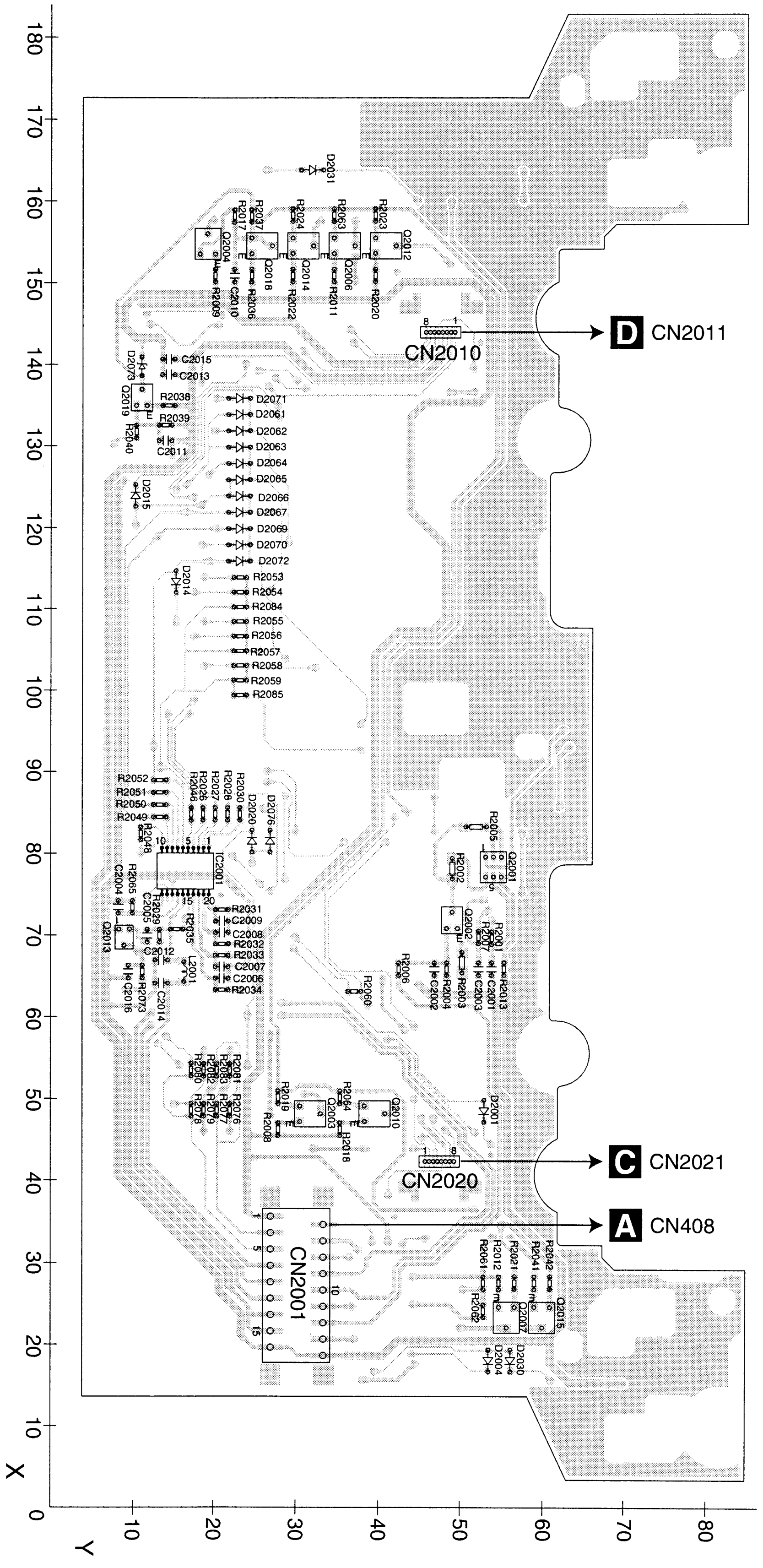
B KEYBOARD PCB

SIDE A


S2011
LOAD
D2051
S2012
D2085
S2005
D2059
CH
DISC
D2060
S2007
S2006
S2008
S2017
S2013
FM
D2057
D2058
TA
S2018
S2014
D2007
D2003
D2006
D2002
S2020
S2015
AM
D2056
D2055
DISC·AUX
S2019
S2016
S2002
S2004
SEEK
TRACK
D2053
D2054
S2001
S2003
S2009
D2052
S2010
D2086
EJECT
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
X
80
70
60
50
40
30
20
10
0
Y

B KEYBOARD PCB

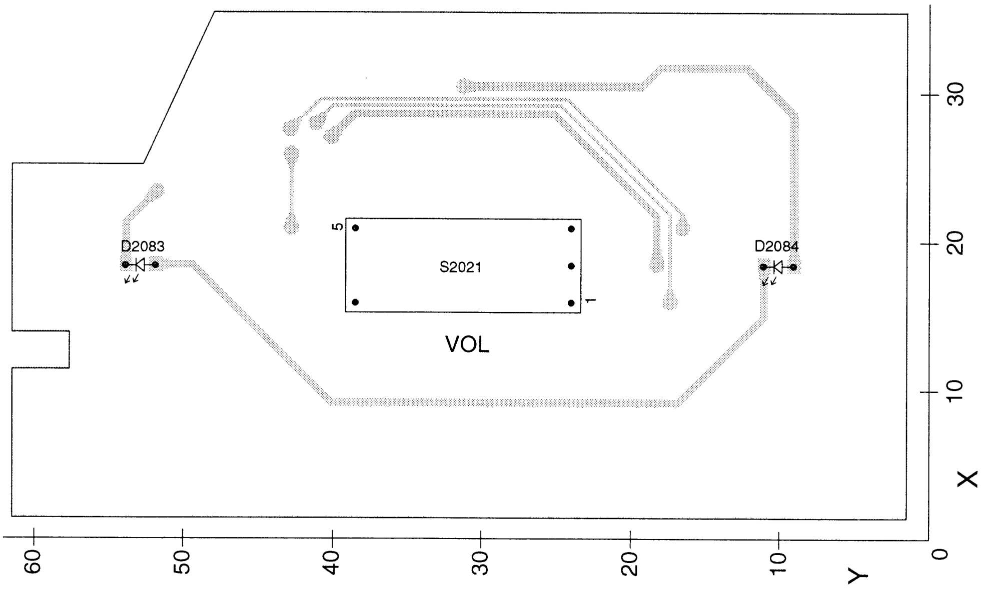
SIDE B


CN2010
D CN2011
C CN2021
CN2020
A CN408
CN2001
IC2001
Q2001
Q2002
Q2003
Q2004
Q2006
Q2007
Q2010
Q2012
Q2013
Q2014
Q2015
Q2018
Q2019
D2001
D2004
D2014
D2015
D2020
D2030
D2031
D2061
D2062
D2063
D2064
D2065
D2066
D2067
D2069
D2070
D2071
D2072
D2073
D2076
R2053
R2054
R2084
R2055
R2056
R2057
R2058
R2059
R2085
R2052
R2051
R2050
R2049
R2048
R2046
R2026
R2027
R2028
R2030
R2031
R2032
R2033
R2034
R2035
R2065
R2029
R2073
C2004
C2005
C2006
C2007
C2008
C2009
C2011
C2012
C2013
C2014
C2015
C2016
L2001
R2038
R2039
R2040
R2037
R2017
R2024
R2063
R2023
R2009
C2010
R2036
R2022
R2011
R2020
R2005
R2002
R2001
R2007
R2006
R2060
C2002
R2004
R2003
C2001
C2003
R2013
R2081
R2083
R2082
R2080
R2076
R2077
R2079
R2078
R2019
R2008
R2064
R2018
R2042
R2041
R2021
R2012
R2061
R2062
X
Y
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

11.3 KEYBOARD L PCB

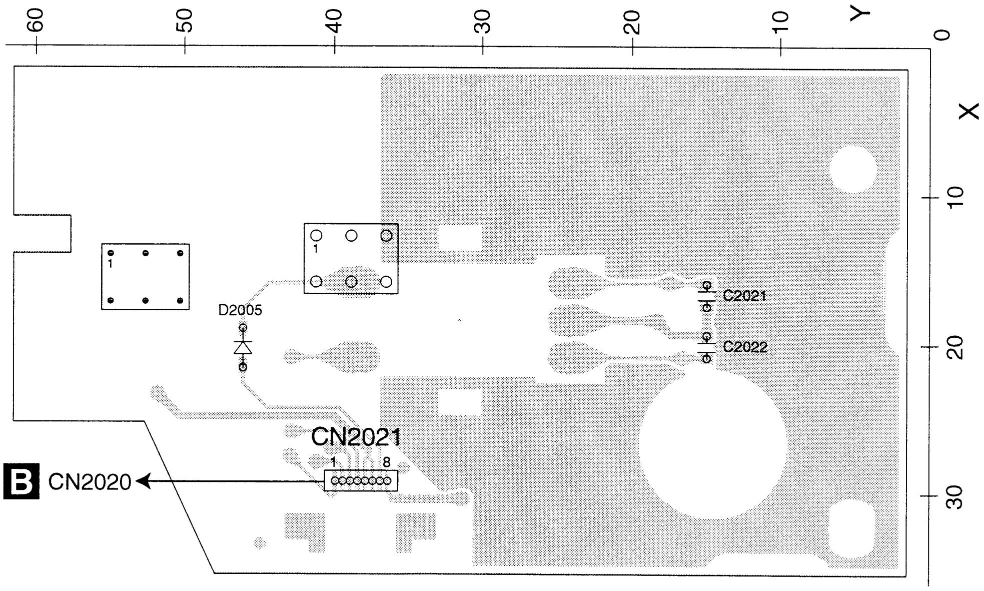
C KEYBOARD L PCB

SIDE A


D2083
S2021
5
1
D2084
VOL
30
20
10
X
60
50
40
30
20
10
Y
0

C KEYBOARD L PCB

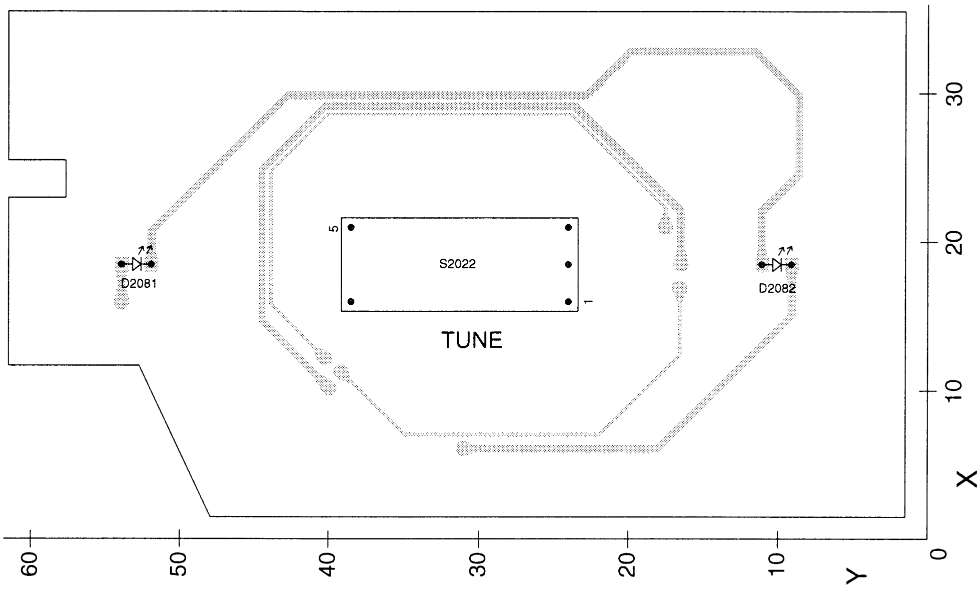
SIDE B


60
50
40
30
20
10
Y
0
X
10
20
30
1
1
D2005
C2021
C2022
CN2021
1
8
B CN2020

11.4 KEYBOARD R PCB

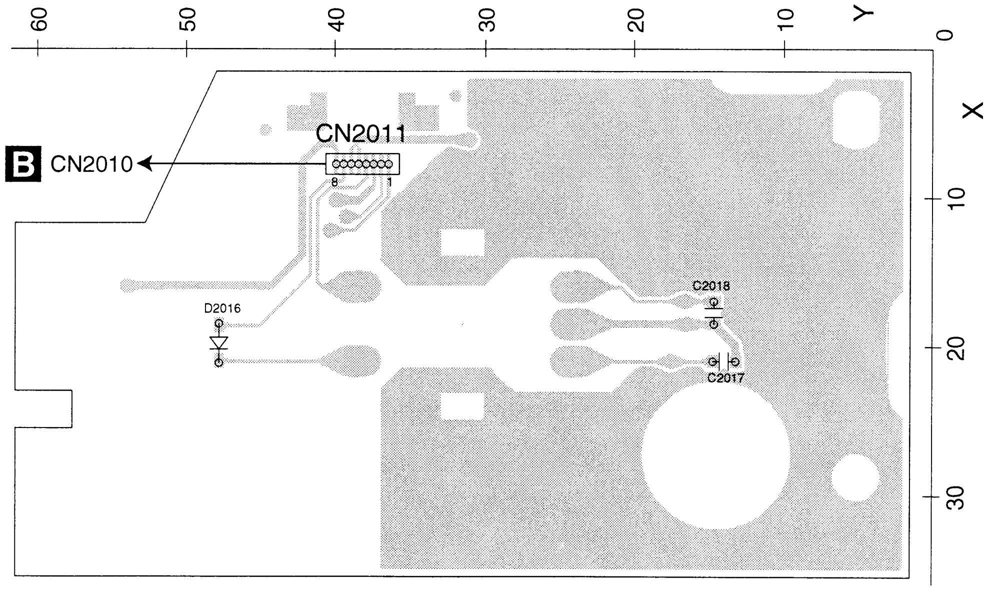
D KEYBOARD R PCB

SIDE A


S2022
5
1
TUNE
D2081
D2082
X
Y
0
10
20
30
40
50
60

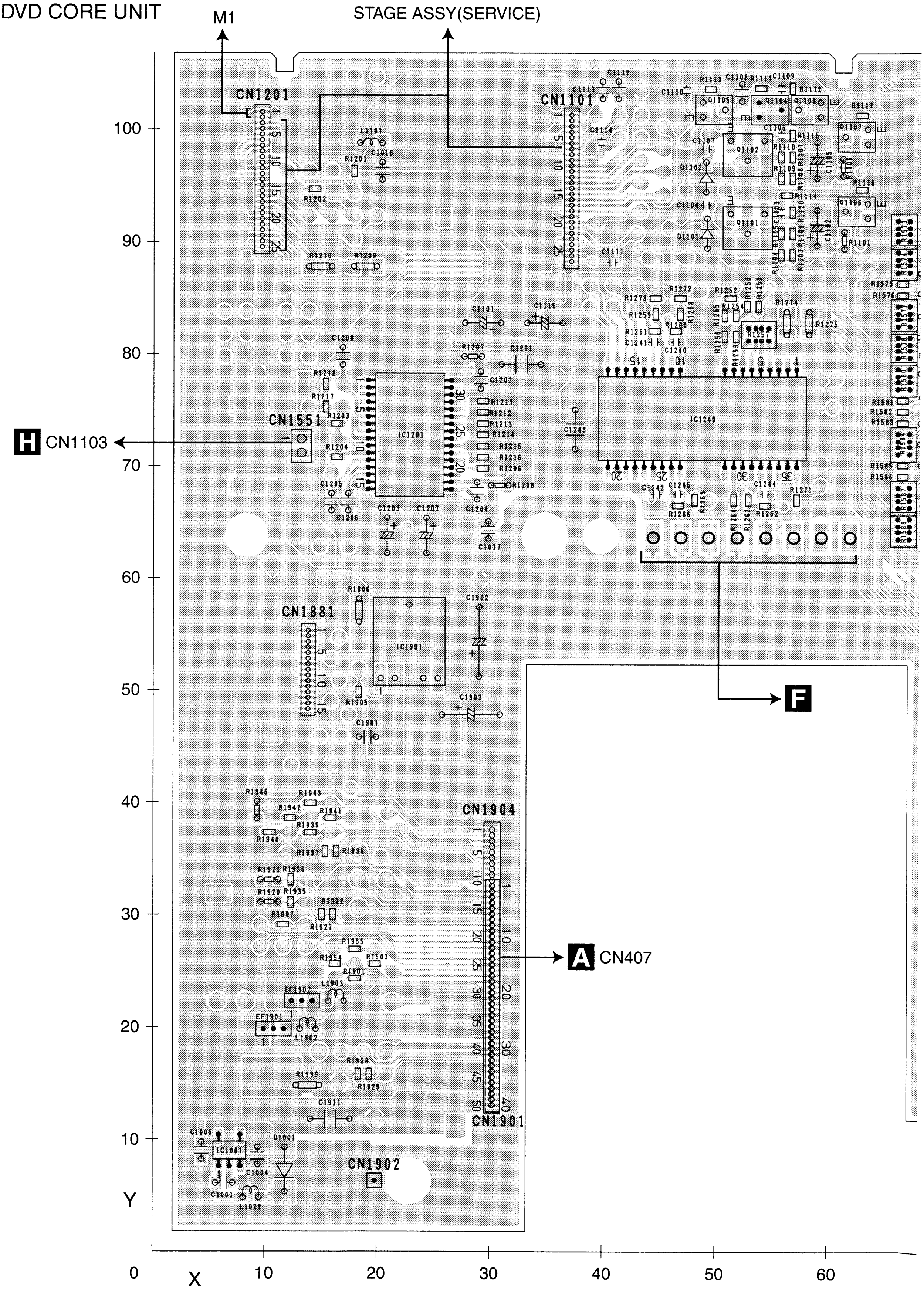
D KEYBOARD R PCB

SIDE B

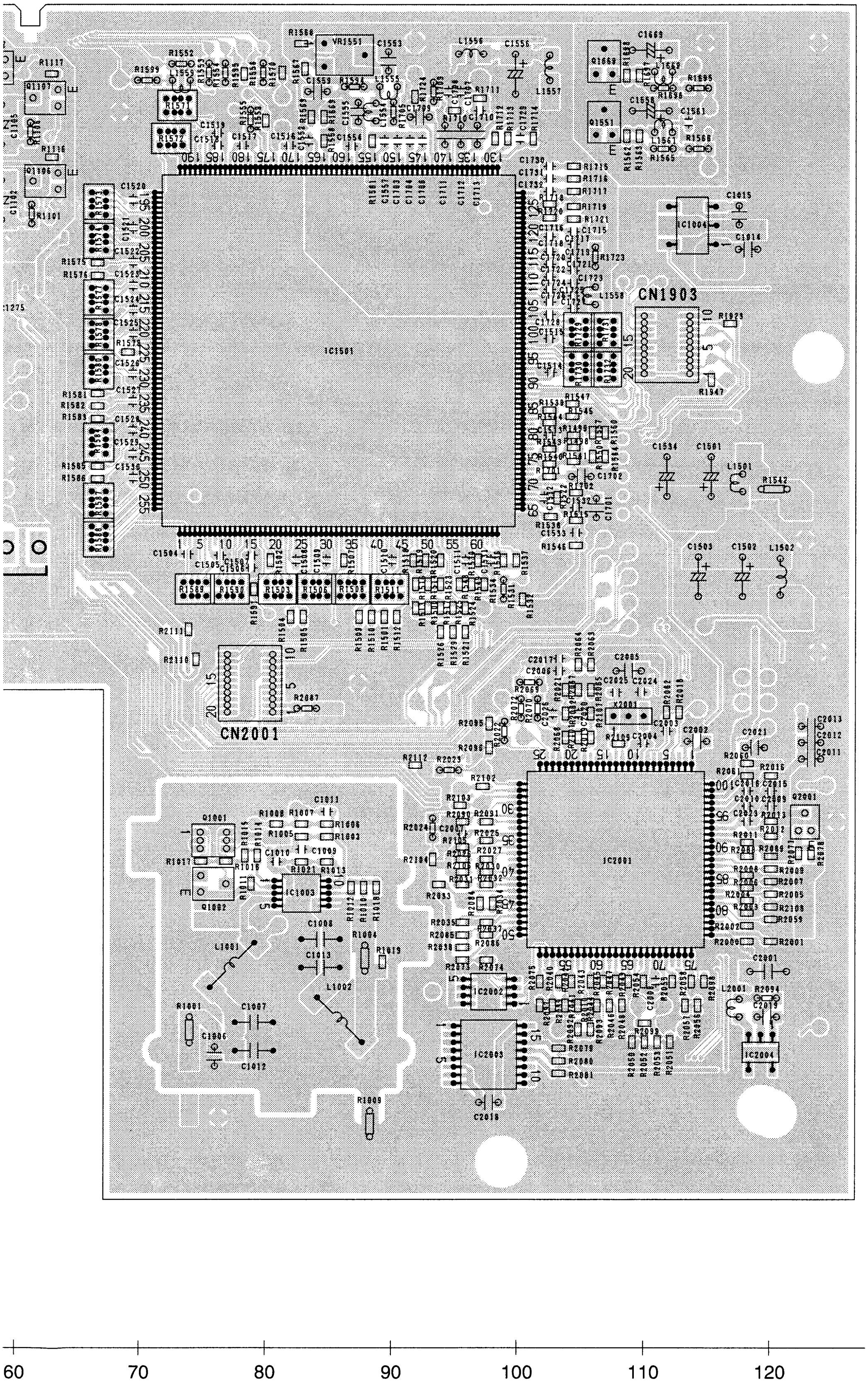

B CN2010
CN2011
8
1
D2016
C2018
C2017
X
Y
0
10
20
30
40
50
60

11.5 DVD CORE UNIT

E DVD CORE UNIT


M1
STAGE ASSY(SERVICE)
CN1201
CN1101
CN1551
H CN1103
IC1201
IC1240
CN1881
IC1901
CN1904
CN1901
A CN407
F
CN1902
IC1081
D1901
D1101
D1102
Q1101
Q1102
Q1103
Q1104
Q1105
Q1106
Q1107
L1101
L1902
L1903
EF1901
EF1902
100
90
80
70
60
50
40
30
20
10
Y
0
X
10
20
30
40
50
60

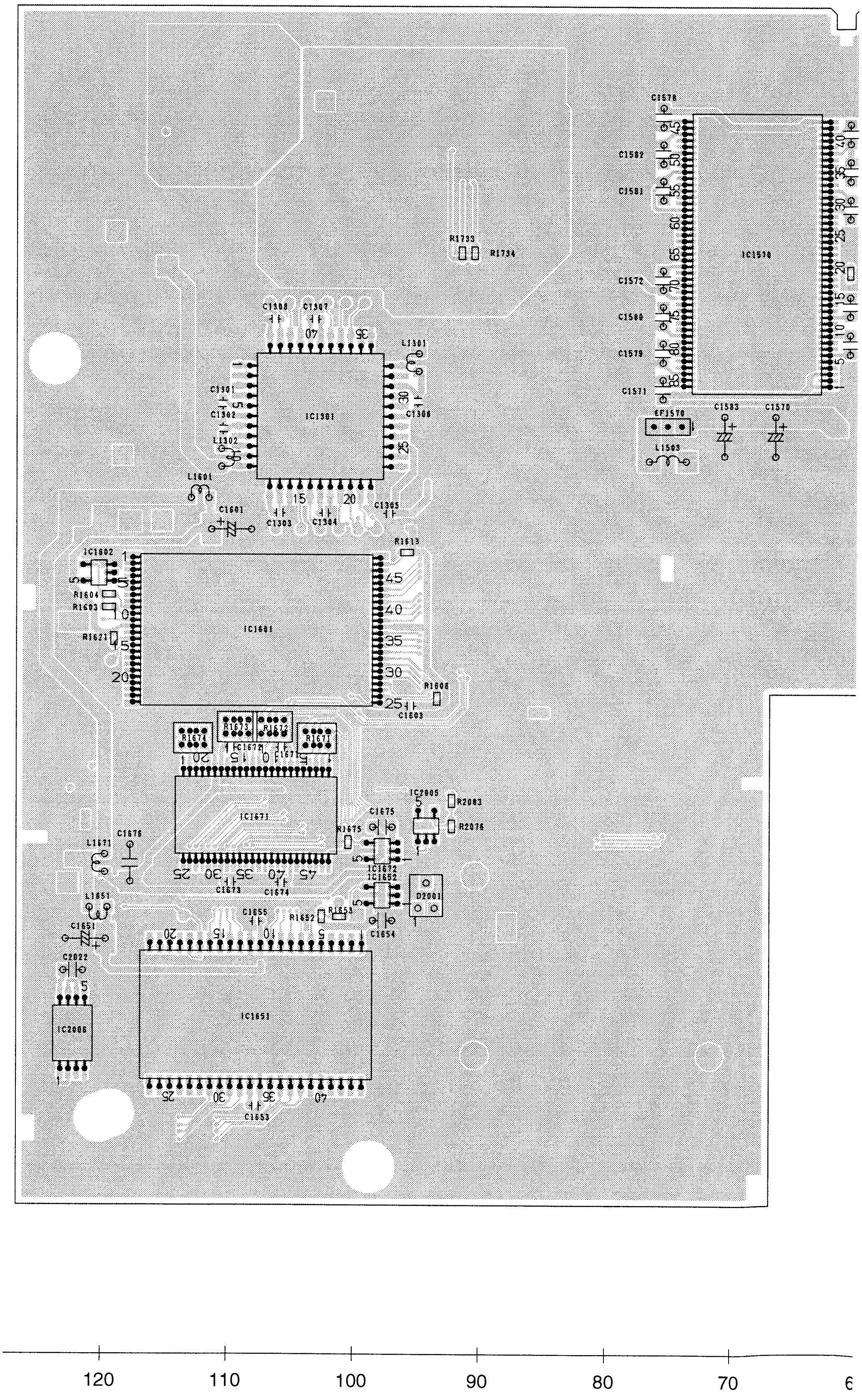
SIDE A


IC1501
CN1903
CN2001
IC2001
IC1003
IC2002
IC2003
IC2004
IC1004
Q1001
Q1002
Q2001
Q1551
Q1669
VR1551
L1001
L1002
L1501
L1502
60
70
80
90
100
110
120

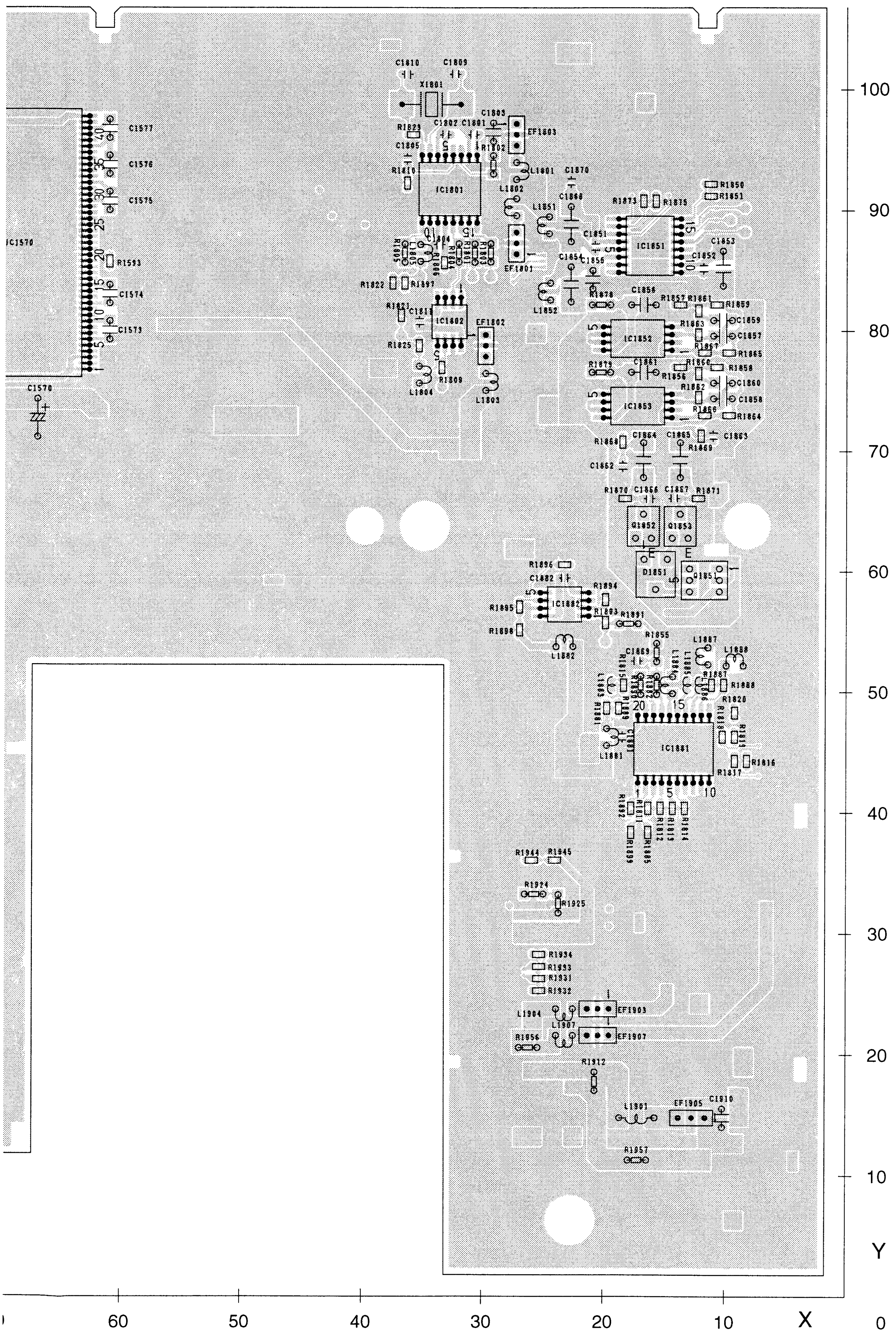
5
6
7
8
A
B
C
D
E
F

E

E DVD CORE UNIT

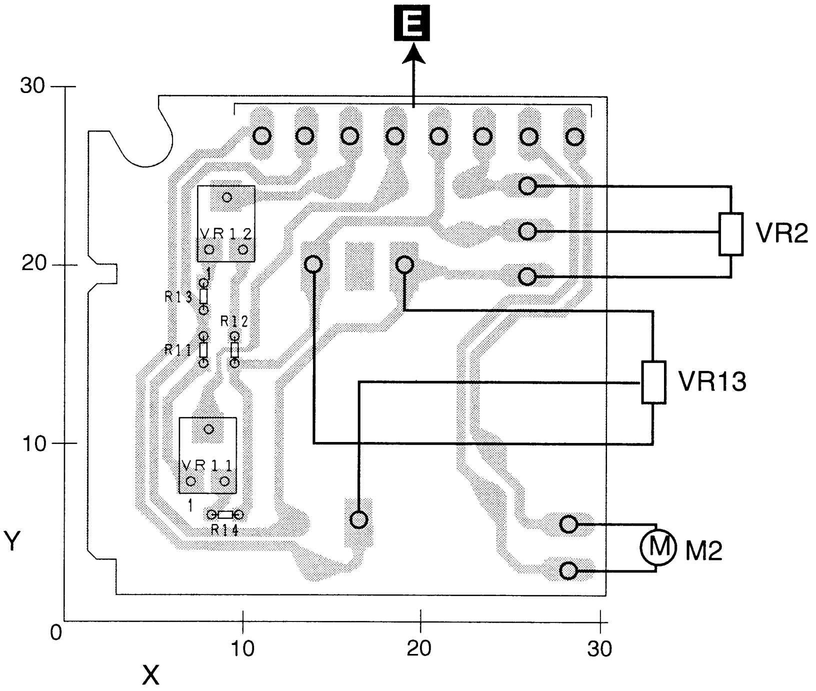

C1578
C1582
C1581
C1572
C1580
C1579
C1571
IC1530
EF1570
C1583
C1570
L1503
R1733
R1734
C1308
C1307
L1301
C1301
C1302
L1302
IC1301
C1306
L1601
C1601
C1303
C1304
C1305
R1613
IC1602
R1604
R1603
R1621
IC1601
R1608
C1603
R1674
R1673
R1672
R1671
C1671
IC1671
IC2005
R2083
R2076
C1675
R1675
IC1672
IC1652
D2001
L1671
C1676
C1673
C1674
L1651
C1651
C1655
R1652
R1653
C1654
C2022
IC1651
IC2006
C1653
120
110
100
90
80
70
6

SIDE B


IC1570
C1577
C1576
C1575
C1574
C1573
R1593
C1570
C1810
C1809
X1801
R1823
C1805
R1810
IC1801
C1802
C1801
C1803
R1802
EF1803
L1801
L1802
EF1801
R1822
R1807
R1821
C1811
IC1802
EF1802
R1825
R1809
L1804
L1803
C1870
C1868
L1851
L1852
C1851
C1855
C1854
R1873
R1875
R1850
R1851
IC1851
C1852
C1853
R1878
C1856
R1857
R1861
R1859
IC1852
R1863
C1859
C1857
R1867
R1865
R1879
C1861
R1856
R1860
R1858
C1860
R1862
IC1853
C1858
R1866
R1864
R1868
C1864
C1865
R1869
C1863
C1862
R1870
C1866
C1867
R1871
Q1852
Q1853
D1851
Q1851
R1896
C1882
R1894
R1895
IC1882
R1893
R1891
R1898
L1882
R1855
C1869
L1887
L1888
R1887
R1888
R1826
L1881
IC1881
R1817
R1816
R1944
R1845
R1924
R1925
R1934
R1933
R1931
R1932
L1904
EF1903
L1907
EF1907
R1956
R1912
L1901
EF1905
C1910
R1957
100
90
80
70
60
50
40
30
20
10
Y
60
50
40
30
20
10
X
0

11.6 PCB ASSY

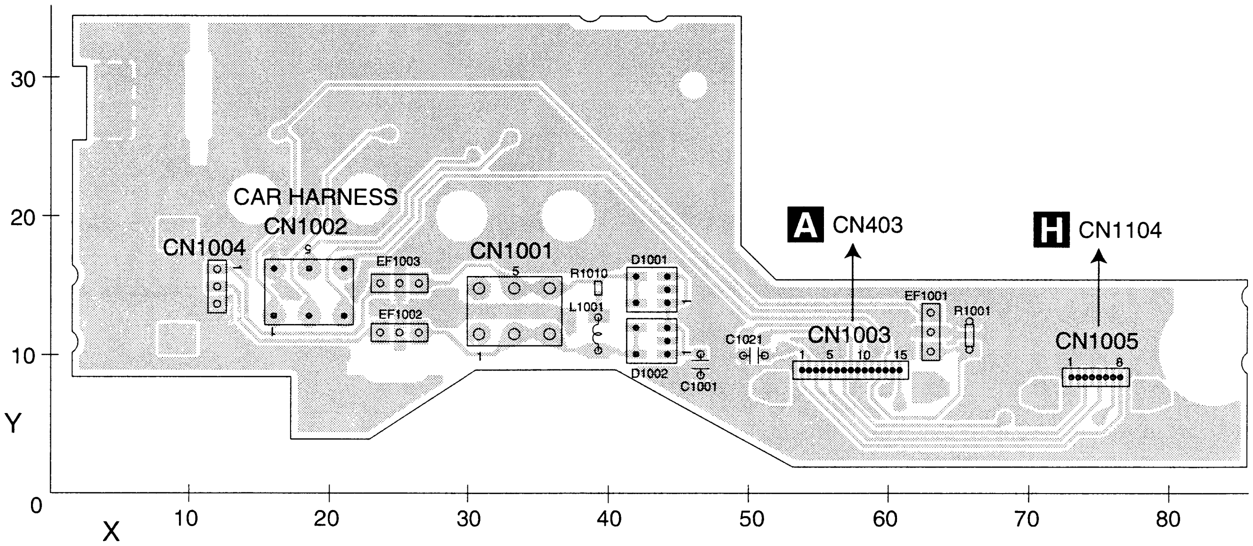
F PCB ASSY


E
30
20
10
0
Y
10
20
30
X
VR12
1
R13
R12
R11
VR11
1
R14
VR2
VR13
M
M2

11.7 CONNECTOR PCB(1)

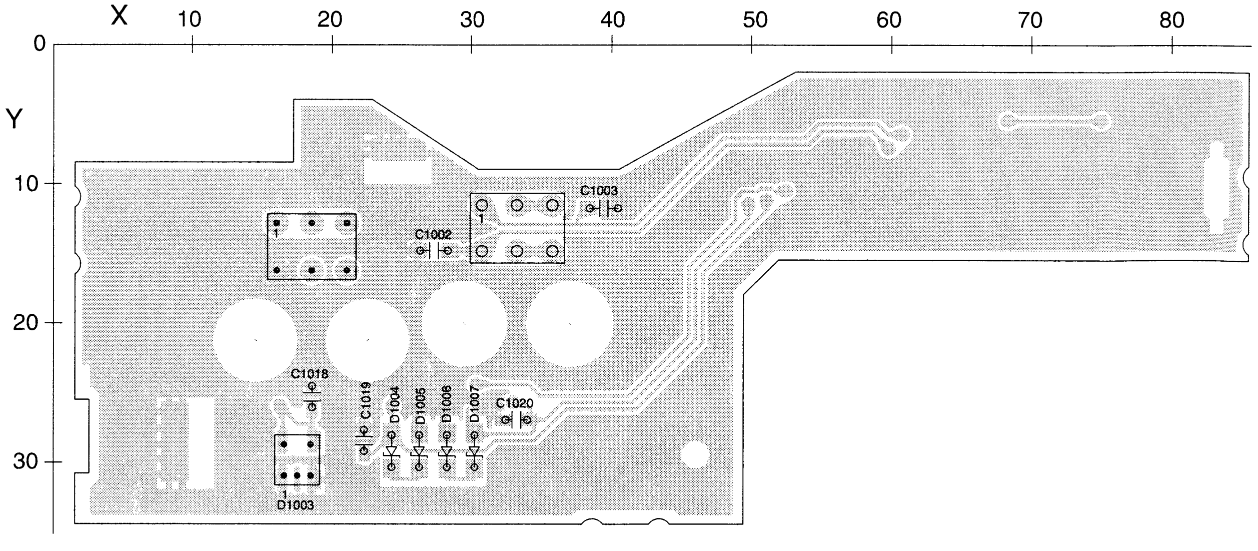
G CONNECTOR PCB(1)

SIDE A


30
20
10
Y
0
X
10
20
30
40
50
60
70
80
CAR HARNESS
CN1002
CN1004
CN1001
EF1003
EF1002
R1010
L1001
D1001
D1002
C1001
C1021
A CN403
CN1003
1 5 10 15
EF1001
R1001
H CN1104
CN1005
1 8

G CONNECTOR PCB(1)

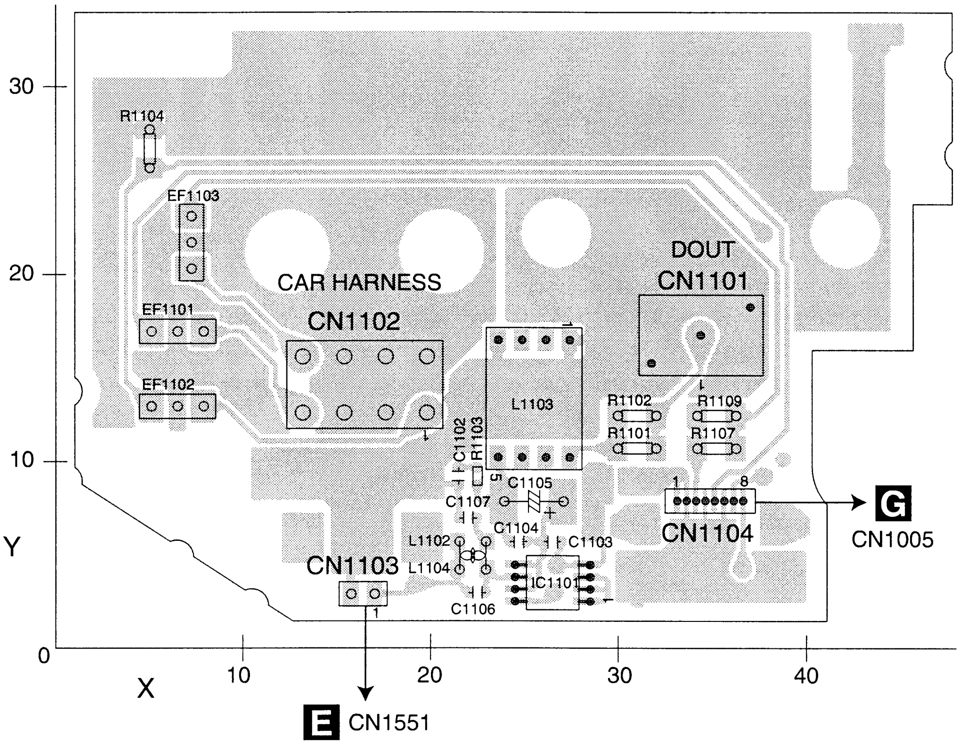
SIDE B


X
10
20
30
40
50
60
70
80
0
Y
10
20
30
C1003
C1002
C1018
C1019
D1004
D1005
D1006
D1007
C1020
D1003

11.8 CONNECTOR PCB(2)

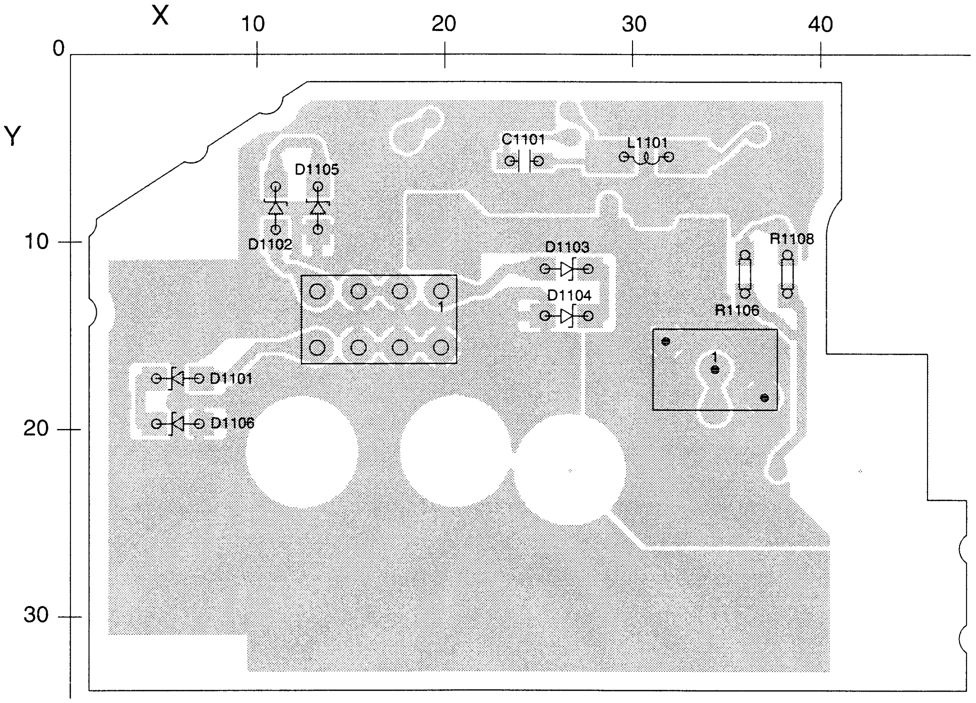
H CONNECTOR PCB(2)

SIDE A


R1104
EF1103
EF1101
EF1102
CAR HARNESS
CN1102
L1103
DOUT
CN1101
R1102
R1109
R1101
R1107
C1102
R1103
C1105
C1107
C1104
C1103
L1102
L1104
C1106
IC1101
CN1103
CN1104
1
8
G
CN1005
E
CN1551
Y
X
0
10
20
30
40

H CONNECTOR PCB(2)

SIDE B


X
0
10
20
30
40
Y
C1101
L1101
D1105
D1102
D1103
D1104
R1108
R1106
D1101
D1106
1

12. ELECTRICAL PARTS LIST

NOTE:

- *Parts whose parts numbers are omitted are subject to being not supplied.*
- *The part numbers shown below indicate chip components.*

  Chip Resistor

  RS1/○S○○○J,RS1/○○S○○○J

  Chip Capacitor (except for CQS.....)

  CKS....., CCS....., CSZS.....
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Meaning of the figures and others in the parentheses in the parts list.*

  Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

  IC 301 (A, 91, 111) IC NJM2068V

Circuit Symbol and No. **Part No.**

Unit Number : CWN2543
Unit Name : Main Unit
Unit Number :
Unit Name : Keyboard Unit
Unit Number : CWN2568
Unit Name : Connector Unit
Unit Number : CWX3543
Unit Name : DVD Core Unit
Unit Number : CWX2986
Unit Name : PCB Assy

A

Unit Number : CWN2543
Unit Name : Main Unit

MISCELLANEOUS

Circuit Symbol and No.		Part No.
IC 102	(A,129,102) IC	NJM2068V
IC 201	(A,95,99) IC	NJM2068V
IC 202	(A,104,93) IC	NJM2068V
IC 203	(A,103,98) IC	NJM4580V
IC 205	(A,88,95) IC	NJM2068V
IC 207	(A,103,84) IC	BD3842FS
IC 208	(B,87,73) IC	OPA2134UA
IC 209	(B,93,73) IC	OPA2134UA
IC 210	(B,102,72) IC	NJM2068V
IC 211	(B,102,76) IC	NJM2068V
IC 220	(B,84,89) IC	TC7W66FK
IC 221	(A,24,109) IC	TC7W66FK
IC 301	(B,96,27) IC	HA12240FP
IC 401	(B,22,37) L-MOS And Gate	TC7SET08FUS1
IC 502	(A,95,32) IC	PEG306A
IC 503	(A,117,23) L-MOS And Gate	TC7SET08FUS1
IC 504	(A,118,32) IC	TC74VHC08FTS1
IC 601	(A,41,74) IC	TPS54350PWP
IC 603	(B,35,76) IC	BA00BC0WFP
IC 604	(A,51,74) IC	TPS54350PWP
IC 751	(B,25,88) IC	S-80940CNNB-G9A
IC 752	(B,21,95) IC	S-812C56AUA-C3K
IC 753	(B,21,103) IC	S-812C39AMC-C2T
IC 801	(B,49,97) IC	NJM2235V
IC 802	(B,39,98) IC	SM5304AV
IC 803	(B,49,92) IC	NJM2235V
IC 804	(B,39,91) IC	SM5304AV
Q 11	(A,136,66) Transistor	2SC3356
Q 12	(A,127,66) Transistor	2SC3356
Q 13	(B,139,62) Transistor	2SA1576A
Q 14	(B,139,56) Transistor	2SC4081
Q 15	(B,128,57) Transistor	2SC4083
Q 16	(B,123,57) Transistor	2SC4083
Q 17	(A,136,82) Transistor	2SC3356
Q 18	(A,127,82) Transistor	2SC3356
Q 19	(B,139,78) Transistor	2SA1576A
Q 20	(B,139,73) Transistor	2SC4081
Q 21	(B,128,73) Transistor	2SC4083
Q 22	(B,123,73) Transistor	2SC4083
Q 23	(B,160,112) Transistor	2SC4081
Q 102	(B,143,82) Transistor	2SC4081
Q 103	(B,149,81) Transistor	UMX1N
Q 104	(B,146,81) Transistor	UMH4N
Q 105	(B,153,46) Transistor	2SA1576A
Q 106	(B,156,28) Transistor	2SA1576A
Q 107	(B,156,24) Transistor	2SA1576A
Q 108	(A,149,61) Chip Transistor	DTC114EUA
Q 109	(B,171,50) Transistor	UMH1N
Q 110	(B,171,46) Transistor	UMH1N
Q 114	(A,146,115) Transistor	2SC4081
Q 115	(B,147,111) Transistor	UMX1N
Q 116	(A,129,95) Transistor	2SC4081
Q 117	(A,127,95) Transistor	2SC4081
Q 119	(A,127,105) Transistor	2SA1576A
Q 123	(B,129,121) Chip Transistor	DTC114EUA
Q 125	(B,104,123) Transistor	UMH1N
Q 126	(B,95,123) Transistor	UMH1N
Q 201	(B,95,90) Transistor	UMH4N
Q 301	(A,91,53) Transistor	2SC4081
Q 302	(B,86,56) Transistor	2SC4081

Circuit Symbol and No.	Part No.
Q 303 (A,84,56) Transistor	2SC4081
Q 308 (A,100,58) Transistor	2SC4081
Q 309 (A,97,51) Transistor	2SC4081
Q 310 (A,107,51) Transistor	UMT2N
Q 311 (A,105,57) Digital Transistor	DTC144EUA
Q 312 (A,94,51) Chip Transistor	DTA114EUA
Q 313 (A,97,55) Transistor	2SC4081
Q 314 (A,76,21) Chip Transistor	DTA114EUA
Q 315 (B,84,62) Transistor	2SC4081
Q 381 (A,101,68) Transistor	UMZ1N
Q 382 (A,104,65) Transistor	UMZ1N
Q 383 (B,82,73) Transistor	FMG12
Q 384 (A,91,86) Transistor	FMG12
Q 385 (B,82,76) Transistor	FMG12
Q 386 (B,82,69) Transistor	FMG12
Q 387 (B,82,80) Transistor	FMG12
Q 388 (A,56,99) Transistor	FMG12
Q 389 (B,90,89) Transistor	FMG12
Q 390 (A,41,105) Transistor	FMG12
Q 401 (A,26,37) Transistor	UMH4N
Q 402 (A,21,36) Transistor	DTA144TK
Q 601 (A,70,87) Transistor	2SC4081
Q 602 (B,46,77) Chip Transistor	DTC114EUA
Q 603 (A,68,79) Transistor	2SA1952
Q 604 (B,67,86) Transistor	2SA1576A
Q 605 (A,53,85) Chip Transistor	DTC114EUA
Q 606 (A,59,85) Transistor	2SA1576A
Q 607 (B,57,55) Chip Transistor	2SB1689
Q 608 (B,57,51) Transistor	2SC4081
Q 609 (A,29,82) Transistor	2SC4081
Q 610 (A,56,86) Transistor	UMD12N
Q 611 (B,43,77) Chip Transistor	DTC114EUA
Q 612 (A,41,66) Power MOS FET	RSS090N03
Q 613 (A,51,66) Power MOS FET	RSS090N03
Q 614 (A,20,71) Chip Transistor	2SB1427
Q 615 (B,66,59) Transistor	2SC4081
Q 616 (B,69,75) Transistor	2SA1952
Q 617 (B,63,49) Transistor	2SA1576A
Q 618 (B,63,43) Chip Transistor	DTC114EUA
Q 701 (A,23,92) Transistor	2SB1184F5
Q 702 (B,32,93) Transistor	UMX1N
Q 703 (B,64,139) Transistor	2SB1260
Q 704 (B,58,139) Transistor	UMX1N
Q 705 (B,74,137) Chip Transistor	DTC114EUA
Q 706 (B,68,138) Transistor	UMT2N
Q 707 (A,154,17) Transistor	2SB1260
Q 708 (A,157,19) Transistor	2SC4081
Q 709 (B,156,17) Transistor	2SB1184F5
Q 710 (A,162,15) Transistor	UMX1N
Q 711 (A,139,48) Transistor	2SB1260
Q 712 (A,134,48) Transistor	UMX1N
Q 713 (B,26,20) Transistor	2SB1260
Q 714 (B,34,21) Transistor	UMX1N
Q 715 (A,14,86) Transistor	2SB1184F5
Q 751 (B,24,94) Transistor	UMD12N
Q 752 (B,14,94) Transistor	2SC4081
Q 753 (B,14,86) Transistor	2SC4154-11
Q 754 (B,14,90) Transistor	2SA1602A
Q 755 (A,8,90) Transistor	2SB1185
Q 756 (B,19,82) Transistor	UMF5N

Circuit Symbol and No.	Part No.
Q 762 (A,21,102) Transistor	2SD1767
Q 801 (A,51,98) Digital Transistor	DTC144EUA
D 11 (B,136,66) Diode	1SV249
D 12 (A,141,58) Diode	1SS355
D 13 (B,132,57) Diode	DAN217U
D 14 (B,132,74) Diode	DAN217U
D 15 (B,136,83) Diode	1SV249
D 16 (A,141,75) Diode	1SS355
D 101 (A,149,81) Diode	CPH5512
D 102 (B,148,69) Diode	CPH5512
D 104 (B,145,113) Diode	CPH5512
D 105 (B,149,122) Diode	CPH5512
D 301 (A,68,103) Diode	RM4LFJ10
D 302 (B,21,116) Diode	UDZS10(B)
D 303 (B,23,116) Diode	UDZS10(B)
D 304 (A,90,58) Diode	HZU8R2(B1)
D 305 (B,83,56) Diode	HZU8R2(B1)
D 306 (A,86,56) Diode	HZU8R2(B1)
D 307 (B,51,114) Diode	UDZS18(B)
D 308 (A,40,114) Diode	UDZS18(B)
D 311 (B,59,115) Diode	UDZS18(B)
D 312 (B,24,138) Diode	UDZS18(B)
D 313 (A,108,54) Diode	1SS355
D 314 (A,104,53) Diode	HZU9R1(B1)
D 316 (A,79,16) Diode	UDZS8R2(B)
D 317 (A,80,48) Diode	1SS355
D 318 (A,80,51) Diode	1SS355
D 319 (A,77,24) Diode	1SS355
D 320 (A,76,27) Diode	1SS355
D 322 (A,84,53) Diode	1SS355
D 323 (A,99,54) Diode	DAP202U
D 324 (A,100,50) Diode	1SS355
D 325 (A,102,52) Diode	1SS355
D 326 (B,19,84) Diode	1SS355
D 341 (B,62,131) Diode	1SS355
D 381 (A,94,61) Diode	DAP202U
D 382 (A,100,61) Diode	1SS355
D 383 (A,104,60) Diode	1SS355
D 384 (B,102,64) Diode	1SS355
D 401 (B,91,64) Diode	UDZS4R7(B)
D 402 (B,8,38) Diode	RB520S-30
D 601 (A,68,73) Diode	RSX201L-30
D 602 (B,67,82) Diode	PTZ16(A)
D 603 (A,31,80) Diode	1SS355
D 604 (B,66,55) Diode	PTZ16(A)
D 605 (B,59,53) Diode	1SS355
D 606 (A,44,84) Diode	1SR154-400
D 701 (B,132,134) Diode	RB051L-40
D 702 (B,28,97) Diode	HZU8R2(B1)
D 703 (B,32,97) Diode	1SS355
D 704 (B,63,133) Diode	RR264M-400
D 705 (B,63,135) Diode	RR264M-400
D 706 (B,74,140) Diode	DAN202U
D 707 (B,74,142) Diode	1SS355
D 708 (B,68,133) Diode	RR264M-400
D 709 (B,68,135) Diode	RR264M-400
D 710 (A,154,14) Diode	1SS355
D 711 (A,162,17) Diode	1SS355
D 713 (B,30,22) Diode	1SS355
D 751 (B,125,134) Diode	1SR154-400

Circuit Symbol and No.			Part No.
D 752	(B,19,86)	Diode	UDZS16(B)
D 753	(B,18,89)	Diode	UDZS9R1(B)
D 755	(B,20,90)	Diode	UDZS16(B)
ZNR11	(B,160,102)	Surge Protector	IMSA-6801-01Y901
ZNR12	(B,161,106)	Surge Protector	IMSA-6801-01Y901
L 11	(B,159,104)	Inductor	LCYB68NJ1608
L 12	(A,159,100)	Inductor	LCYB12NJ1608
L 13	(A,141,65)	Inductor	LCYBR12J1608
L 14	(A,140,65)	Inductor	LCYBR12J1608
L 15	(A,135,60)	Coil	CTC1187
L 16	(A,132,67)	Inductor	LCYBR15J1608
L 17	(A,125,60)	Coil	CTC1187
L 18	(A,122,67)	Inductor	LCYBR15J1608
L 19	(B,159,108)	Inductor	LCYB68NJ1608
L 20	(A,158,107)	Inductor	LCYB12NJ1608
L 21	(A,141,82)	Inductor	LCYBR12J1608
L 22	(A,140,82)	Inductor	LCYBR12J1608
L 23	(A,135,77)	Coil	CTC1187
L 24	(A,132,84)	Inductor	LCYBR15J1608
L 25	(A,125,77)	Coil	CTC1187
L 26	(A,122,84)	Inductor	LCYBR15J1608
L 101	(B,146,72)	Inductor	LCTC6R8K1608
L 102	(B,148,72)	Inductor	LCTC6R8K1608
L 103	(B,155,85)	Inductor	LCTC6R8K1608
L 104	(A,146,63)	Inductor	CTF1473
L 105	(A,148,51)	Inductor	CTF1295
L 106	(A,147,56)	Inductor	CTF1473
L 107	(A,148,56)	Inductor	CTF1473
L 108	(A,158,103)	Chip Coil	LCTAW330J2520
L 110	(A,149,114)	Inductor	CTF1473
L 111	(B,141,113)	Inductor	LCTC6R8K1608
L 112	(B,141,112)	Inductor	LCTC6R8K1608
L 113	(A,94,115)	Inductor	CTF1295
L 114	(B,127,119)	Inductor	CTF1473
L 115	(B,121,123)	Inductor	CTF1473
L 116	(B,144,122)	Inductor	LCTC6R8K1608
L 201	(A,103,69)	Inductor	CTF1473
L 301	(A,119,140)	Choke Coil 95 μH	CTH1301
L 302	(B,90,26)	Inductor	CTF1473
L 413	(A,18,29)	Inductor	CTF1558
L 414	(B,23,39)	Inductor	CTF1473
L 416	(A,19,42)	Inductor	CTF1473
L 417	(A,19,44)	Inductor	CTF1473
L 418	(B,10,43)	Inductor	CTF1306
L 420	(B,25,40)	Inductor	CTF1473
L 501	(B,100,39)	Inductor	CTF1473
L 502	(A,121,26)	Inductor	CTF1473
L 503	(A,122,32)	Inductor	CTF1473
L 601	(A,65,65)	Inductor	CTH1257
L 602	(A,42,57)	Inductor	CTH1257
L 603	(A,53,57)	Inductor	CTH1257
L 605	(A,47,10)	Inductor	CTF1295
L 701	(A,113,54)	Inductor	CTF1473
L 702	(A,136,9)	Inductor	CTF1295
L 801	(A,52,87)	Inductor	CTF1473
X 501	(A,95,19)	Radiator 10.0 MHz	CSS1577
⚠FU301	(B,52,139)	Fuse 8 A	CEK1263
Y 102	(A,153,126)	FM/AM Tuner Unit	CWE1849
Y 101	(A,161,88)	FM/AM Tuner Unit	CWE1849
EF601	(B,43,53)	EMI Filter	CCG1163
EF602	(B,53,53)	EMI Filter	CCG1163

RESISTORS

Circuit Symbol and No.		Part No.
R 1	(A,133,25)	RS1/16SS0R0J
R 2	(A,128,22)	RS1/16SS0R0J
R 3	(B,137,61)	RS1/16SS474J
R 4	(B,138,54)	RS1/16SS474J
R 5	(B,137,78)	RS1/16SS474J
R 6	(B,136,75)	RS1/16SS474J
R 7	(B,131,55)	RS1/16SS681J
R 8	(B,131,72)	RS1/16SS681J
R 9	(A,10,50)	RS1/16SS0R0J
R 10	(A,13,50)	RS1/16SS121J
R 11	(B,138,64)	RS1/16SS102J
R 12	(A,140,61)	RS1/16SS331J
R 13	(A,137,68)	RS1/16SS100J
R 14	(A,133,64)	RS1/16SS222J
R 15	(A,137,57)	RS1/16SS121J
R 16	(A,134,67)	RS1/16SS330J
R 17	(A,133,57)	RS1/16SS100J
R 18	(A,133,67)	RS1/16SS100J
R 19	(A,128,68)	RS1/16SS100J
R 20	(A,124,65)	RS1/16SS222J
R 21	(A,127,57)	RS1/16SS121J
R 22	(A,125,67)	RS1/16SS330J
R 23	(A,124,57)	RS1/16SS100J
R 24	(A,124,67)	RS1/16SS100J
R 25	(B,137,58)	RS1/16SS271J
R 26	(B,140,58)	RS1/16SS472J
R 27	(B,135,58)	RS1/16SS223J
R 28	(B,138,59)	RS1/16SS220J
R 29	(B,126,56)	RS1/16SS271J
R 30	(B,126,58)	RS1/16SS561J
R 31	(B,126,59)	RS1/16SS333J
R 32	(B,124,60)	RS1/16SS683J
R 33	(B,124,59)	RS1/16SS471J
R 34	(B,138,81)	RS1/16SS102J
R 35	(A,140,78)	RS1/16SS331J
R 36	(A,137,85)	RS1/16SS100J
R 37	(A,133,81)	RS1/16SS222J
R 38	(A,137,74)	RS1/16SS121J
R 39	(A,135,84)	RS1/16SS330J
R 40	(A,133,74)	RS1/16SS100J
R 41	(A,133,83)	RS1/16SS100J
R 42	(A,128,85)	RS1/16SS100J
R 43	(A,124,81)	RS1/16SS222J
R 44	(A,127,74)	RS1/16SS121J
R 45	(A,125,84)	RS1/16SS330J
R 46	(A,124,74)	RS1/16SS100J
R 47	(A,124,83)	RS1/16SS100J
R 48	(B,137,75)	RS1/16SS271J
R 49	(B,140,75)	RS1/16SS472J
R 50	(B,135,74)	RS1/16SS223J
R 51	(B,138,76)	RS1/16SS220J
R 52	(B,126,72)	RS1/16SS271J
R 53	(B,126,74)	RS1/16SS561J
R 54	(B,126,76)	RS1/16SS333J
R 55	(B,124,77)	RS1/16SS683J

Circuit Symbol and No.		Part No.
R 56	(B,124,76)	RS1/16SS471J
R 57	(B,162,114)	RS1/16SS223J
R 58	(B,162,113)	RS1/16SS472J
R 60	(B,128,35)	RS1/16SS0R0J
R 67	(B,130,26)	RS1/16SS0R0J
R 102	(B,148,83)	RS1/16SS222J
R 103	(B,146,84)	RS1/16SS222J
R 104	(A,148,78)	RS1/16SS104J
R 105	(A,147,77)	RS1/16SS225J
R 106	(A,150,76)	RS1/16SS225J
R 107	(B,145,69)	RS1/16SS225J
R 108	(B,150,69)	RS1/16SS225J
R 109	(A,150,78)	RS1/16SS104J
R 110	(B,148,78)	RS1/16SS102J
R 111	(B,151,76)	RS1/10S821J
R 114	(A,149,38)	RS1/16SS471J
R 115	(B,151,46)	RS1/16SS272J
R 116	(B,152,29)	RS1/16SS272J
R 118	(B,137,25)	RS1/16SS272J
R 120	(A,146,59)	RS1/16SS103J
R 122	(A,152,61)	RS1/16SS681J
R 123	(B,168,72)	RS1/16SS681J
R 124	(B,168,70)	RS1/16SS681J
R 125	(B,168,68)	RS1/16SS681J
R 126	(B,168,66)	RS1/16SS681J
R 127	(B,168,64)	RS1/16SS681J
R 128	(B,154,50)	RS1/16SS222J
R 129	(B,173,51)	RS1/16SS223J
R 130	(B,169,49)	RS1/16SS223J
R 131	(B,173,46)	RS1/16SS223J
R 132	(B,169,45)	RS1/16SS223J
R 135	(B,145,111)	RS1/16SS222J
R 136	(A,144,112)	RS1/16SS222J
R 137	(B,148,114)	RS1/16SS104J
R 141	(A,135,117)	RS1/16SS471J
R 145	(B,148,113)	RS1/16SS104J
R 146	(B,150,110)	RS1/16SS472J
R 147	(B,150,114)	RS1/10S102J
R 148	(A,125,116)	RS1/16SS272J
R 150	(A,172,49)	RS1/16SS100J
R 153	(B,127,122)	RS1/16SS103J
R 155	(B,131,122)	RS1/16SS681J
R 156	(B,140,122)	RS1/16SS681J
R 157	(B,137,122)	RS1/16SS681J
R 158	(B,135,122)	RS1/16SS681J
R 159	(B,133,123)	RS1/16SS681J
R 160	(B,134,118)	RS1/16SS681J
R 161	(B,115,122)	RS1/16SS222J
R 165	(B,160,114)	RS1/16SS473J
R 167	(B,108,122)	RS1/16SS223J
R 169	(B,108,121)	RS1/16SS223J
R 170	(B,99,123)	RS1/16SS223J
R 171	(B,99,121)	RS1/16SS223J
R 176	(A,125,103)	RS1/16SS683J
R 177	(A,129,98)	RS1/16SS682J
R 178	(A,132,94)	RS1/16SS223J
R 179	(A,123,107)	RS1/16SS101J
R 180	(A,125,101)	RS1/16SS223J
R 181	(A,131,96)	RS1/16SS472J
R 183	(A,125,97)	RS1/16SS223J
R 184	(A,130,98)	RS1/16SS682J
R 185	(A,129,104)	RS1/16SS101J
R 186	(A,132,104)	RS1/16SS683J
R 187	(A,132,98)	RS1/16SS683J
R 188	(A,133,105)	RS1/16SS682J
R 189	(A,132,96)	RS1/16SS223J
R 190	(A,127,98)	RS1/16SS222J
R 201	(B,43,117)	RS1/10S103J
R 202	(B,39,115)	RS1/10S103J
R 203	(B,46,117)	RS1/10S103J
R 204	(B,48,115)	RS1/10S103J
R 205	(B,39,113)	RS1/16SS562J
R 206	(B,43,113)	RS1/16SS562J
R 207	(B,40,113)	RS1/16SS562J
R 208	(B,46,113)	RS1/16SS562J
R 209	(B,94,101)	RS1/16SS473J
R 210	(B,91,101)	RS1/16SS473J
R 211	(B,92,101)	RS1/16SS473J
R 212	(B,97,101)	RS1/16SS473J
R 213	(B,98,101)	RS1/16SS473J
R 214	(B,95,101)	RS1/16SS473J
R 215	(B,92,98)	RS1/16SS473J
R 216	(B,98,99)	RS1/16SS473J
R 217	(B,105,90)	RS1/16SS153J
R 218	(B,102,91)	RS1/16SS153J
R 219	(B,107,92)	RS1/16SS223J
R 220	(B,101,93)	RS1/16SS223J
R 221	(B,103,96)	RS1/16SS333J
R 222	(B,101,97)	RS1/16SS333J
R 223	(A,107,95)	RS1/16SS223J
R 224	(B,100,99)	RS1/16SS223J
R 230	(B,87,98)	RS1/16SS223J
R 231	(B,85,98)	RS1/16SS133J
R 233	(B,89,97)	RS1/16SS103J
R 236	(B,86,92)	RS1/16SS223J
R 237	(B,85,94)	RS1/16SS133J
R 239	(B,87,94)	RS1/16SS103J
R 241	(B,93,91)	RS1/16SS182J
R 242	(B,96,88)	RS1/16SS182J
R 245	(B,84,97)	RS1/10S102J
R 246	(B,82,97)	RS1/10S102J
R 248	(A,87,76)	RS1/10S101J
R 249	(A,87,73)	RS1/10S101J
R 250	(A,87,79)	RS1/10S101J
R 251	(A,87,81)	RS1/10S101J
R 252	(B,104,69)	RS1/16SS103J
R 253	(B,98,66)	RS1/16SS392J
R 254	(B,98,67)	RS1/16SS153J
R 255	(A,79,95)	RS1/16SS223J
R 256	(A,87,93)	RS1/16SS223J
R 257	(A,26,107)	RS1/16SS223J
R 258	(A,28,109)	RS1/16SS223J
R 263	(A,106,78)	RS1/16SS471J
R 264	(A,105,78)	RS1/16SS471J
R 265	(B,89,79)	RS1/16SS153J
R 266	(B,89,68)	RS1/16SS153J
R 267	(B,91,79)	RS1/16SS153J
R 268	(B,91,68)	RS1/16SS153J
R 269	(B,93,79)	RS1/16SS153J
R 270	(B,94,68)	RS1/16SS153J

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
R 271	(A,90,74)	RS1/16SS223J	R 342	(A,79,23)	RS1/16SS223J
R 272	(A,91,79)	RS1/16SS223J	R 343	(A,78,22)	RS1/16SS223J
R 273	(A,90,77)	RS1/16SS223J	R 344	(A,77,19)	RS1/16SS222J
R 274	(A,91,81)	RS1/16SS223J	R 345	(B,60,133)	RS1/10S472J
R 275	(A,89,78)	RS1/16SS101J	R 346	(B,58,133)	RS1/10S222J
R 276	(A,89,75)	RS1/16SS101J	R 347	(A,81,39)	RS1/16SS473J
R 277	(A,90,79)	RS1/16SS101J	R 348	(A,76,26)	RS1/16SS103J
R 278	(A,90,81)	RS1/16SS101J	R 349	(A,79,24)	RS1/16SS152J
R 279	(B,106,71)	RS1/16SS153J	R 350	(B,17,142)	RS1/10S102J
R 280	(B,97,72)	RS1/16SS153J	R 351	(B,22,140)	RS1/10S102J
R 281	(B,97,74)	RS1/16SS153J	R 352	(A,78,26)	RS1/16SS152J
R 282	(B,106,73)	RS1/16SS153J	R 353	(B,86,63)	RS1/16SS104J
R 283	(B,96,77)	RS1/16SS153J	R 354	(B,87,63)	RS1/16SS103J
R 284	(B,104,80)	RS1/16SS153J	R 356	(A,80,39)	RS1/16SS102J
R 285	(B,101,81)	RS1/16SS104J	R 381	(A,97,60)	RS1/16SS153J
R 286	(B,80,89)	RS1/16SS104J	R 382	(A,100,63)	RS1/16SS153J
R 287	(B,96,82)	RS1/16SS104J	R 383	(A,102,58)	RS1/16SS471J
R 288	(A,85,87)	RS1/16SS104J	R 384	(A,96,60)	RS1/16SS472J
R 289	(B,94,82)	RS1/10S470J	R 385	(A,104,62)	RS1/16SS472J
R 290	(B,101,83)	RS1/10S470J	R 386	(A,101,69)	RS1/16SS223J
R 291	(A,61,95)	RS1/10S470J	R 387	(A,107,64)	RS1/16SS223J
R 292	(A,61,97)	RS1/10S470J	R 389	(A,102,78)	RS1/16SS103J
R 295	(A,77,95)	RS1/16SS224J	R 391	(A,100,78)	RS1/16SS103J
R 296	(A,78,95)	RS1/16SS224J	R 392	(A,87,86)	RS1/10S470J
R 297	(A,26,109)	RS1/16SS224J	R 393	(A,89,88)	RS1/10S470J
R 298	(A,20,111)	RS1/16SS224J	R 394	(B,101,69)	RS1/16S103J
R 301	(A,88,54)	RS1/16SS223J	R 395	(A,37,106)	RS1/10S470J
R 302	(A,92,56)	RS1/16SS223J	R 396	(A,53,102)	RS1/10S470J
R 303	(A,91,56)	RS1/16SS473J	R 397	(B,96,73)	RS1/16SS103J
R 304	(A,88,56)	RS1/16SS103J	R 400	(A,116,27)	RS1/16SS473J
R 305	(A,88,60)	RS1/16SS222J	R 401	(B,107,110)	RS1/16SS473J
R 306	(A,88,58)	RS1/16SS222J	R 403	(B,107,111)	RS1/16SS473J
R 307	(B,83,55)	RS1/16SS223J	R 418	(A,19,40)	RS1/16S0R0J
R 308	(B,87,58)	RS1/16SS223J	R 419	(A,31,22)	RS1/16S0R0J
R 309	(B,85,58)	RS1/16SS473J	R 423	(B,22,35)	RS1/16SS471J
R 310	(B,85,59)	RS1/16SS103J	R 424	(B,28,15)	RS1/16SS473J
R 311	(B,83,58)	RS1/16SS222J	R 431	(A,25,67)	RS1/16SS0R0J
R 312	(B,83,59)	RS1/16SS222J	R 435	(A,96,45)	RS1/16SS473J
R 313	(A,88,53)	RS1/16SS223J	R 447	(A,17,35)	RS1/16SS102J
R 314	(A,86,59)	RS1/16SS472J	R 448	(B,13,38)	RS1/16SS102J
R 315	(A,84,59)	RS1/16SS472J	R 450	(B,17,35)	RS1/16SS471J
R 316	(B,101,27)	RS1/16SS472J	R 451	(B,16,35)	RS1/16SS471J
R 317	(B,101,29)	RS1/16SS472J	R 452	(B,15,35)	RS1/16SS471J
R 318	(A,48,114)	RS1/4S101J	R 456	(A,17,39)	RS1/16SS0R0J
R 319	(A,44,119)	RS1PMF680J	R 457	(A,17,40)	RS1/16SS0R0J
R 320	(A,37,115)	RS1/4S101J	R 458	(A,21,42)	RS1/16SS332J
R 327	(A,102,54)	RS1/16SS472J	R 459	(A,21,44)	RS1/16SS332J
R 328	(A,101,55)	RS1/16SS103J	R 460	(B,14,43)	RS1/16SS102J
R 329	(B,56,114)	RS1/10S221J	R 461	(B,145,7)	RS1/16SS472J
R 331	(A,97,49)	RS1/16SS103J	R 462	(B,147,7)	RS1/16SS472J
R 332	(B,23,133)	RS1/10S221J	R 463	(B,149,7)	RS1/16SS472J
R 333	(A,107,55)	RS1/16SS473J	R 464	(B,152,7)	RS1/16SS472J
R 334	(A,110,50)	RS1/16SS473J	R 465	(B,88,65)	RS1/16SS222J
R 335	(A,108,50)	RS1/16SS103J	R 466	(B,153,7)	RS1/16SS472J
R 336	(A,104,50)	RS1/16SS103J	R 467	(B,160,7)	RS1/16SS472J
R 337	(A,104,51)	RS1/16SS103J	R 471	(A,81,31)	RS1/16SS222J
R 338	(A,95,48)	RS1/16SS473J	R 472	(A,82,31)	RS1/16SS222J
R 339	(A,98,57)	RS1/16SS471J	R 473	(A,82,29)	RS1/16SS222J
R 340	(A,98,58)	RS1/16SS392J	R 474	(A,86,21)	RS1/16SS222J
R 341	(B,29,138)	RS1/10S101J	R 475	(A,86,19)	RS1/16SS222J

Circuit Symbol and No.		Part No.
R 476	(A,88,21)	RS1/16SS222J
R 479	(B,124,36)	RS1/16SS100J
R 480	(B,120,35)	RS1/16SS100J
R 498	(B,98,43)	RS1/16SS473J
R 499	(A,111,39)	RS1/16SS102J
R 505	(A,80,26)	RS1/16SS102J
R 506	(A,80,25)	RS1/16SS102J
R 507	(A,81,21)	RS1/16SS473J
R 508	(A,83,16)	RS1/16SS102J
R 509	(A,83,18)	RS1/16SS102J
R 510	(A,82,21)	RS1/16SS103J
R 511	(A,81,23)	RS1/16SS473J
R 515	(A,90,49)	RS1/16SS102J
R 516	(A,91,48)	RS1/16SS102J
R 517	(A,92,50)	RS1/16SS102J
R 518	(A,93,48)	RS1/16SS102J
R 519	(A,94,48)	RS1/16SS102J
R 520	(A,92,44)	RS1/16SS471J
R 521	(A,88,18)	RS1/16SS102J
R 522	(A,88,16)	RS1/16SS152J
R 523	(A,89,19)	RS1/16SS102J
R 524	(A,89,16)	RS1/16SS102J
R 525	(A,90,19)	RS1/16SS102J
R 526	(B,91,14)	RS1/16SS473J
R 527	(A,93,42)	RS1/16SS471J
R 528	(B,95,41)	RS1/16SS105J
R 529	(A,97,42)	RS1/16SS103J
R 530	(A,99,47)	RS1/16SS103J
R 531	(A,98,42)	RS1/16SS471J
R 532	(A,100,47)	RS1/16SS471J
R 533	(A,95,42)	RS1/16SS102J
R 534	(A,91,19)	RS1/16SS102J
R 535	(A,91,16)	RS1/16SS102J
R 536	(A,92,16)	RS1/16SS102J
R 537	(A,94,21)	RS1/16SS0R0J
R 538	(A,98,17)	RS1/16SS473J
R 539	(A,99,16)	RS1/16SS471J
R 540	(A,100,16)	RS1/16SS102J
R 541	(A,101,18)	RS1/16SS471J
R 542	(B,102,27)	RS1/16SS102J
R 547	(A,103,44)	RS1/16SS473J
R 548	(A,104,44)	RS1/16SS102J
R 549	(A,104,46)	RS1/16SS102J
R 550	(A,105,44)	RS1/16SS102J
R 551	(A,106,44)	RS1/16SS102J
R 552	(A,106,42)	RS1/16SS102J
R 553	(A,101,16)	RS1/16SS102J
R 554	(A,102,16)	RS1/16SS102J
R 555	(A,102,18)	RS1/16SS102J
R 556	(A,104,16)	RS1/16SS102J
R 559	(A,106,17)	RS1/16SS102J
R 560	(A,106,20)	RS1/16S0R0J
R 565	(A,109,37)	RS1/16SS102J
R 566	(A,111,37)	RS1/16SS102J
R 567	(A,109,36)	RS1/16SS102J
R 569	(A,111,34)	RS1/16SS102J
R 570	(A,109,33)	RS1/16SS102J
R 571	(A,111,33)	RS1/16SS102J
R 572	(A,109,32)	RS1/16SS102J
R 573	(A,111,31)	RS1/16SS102J
R 575	(A,111,30)	RS1/16SS471J
R 576	(B,102,38)	RS1/16SS102J
R 577	(A,109,29)	RS1/16SS102J
R 579	(A,109,27)	RS1/16SS471J
R 581	(A,112,26)	RS1/16SS101J
R 582	(A,112,25)	RS1/16SS101J
R 583	(A,107,23)	RS1/16SS102J
R 584	(A,109,22)	RS1/16SS102J
R 585	(A,110,24)	RS1/16SS103J
R 587	(A,114,28)	RS1/16SS473J
R 588	(A,107,17)	RS1/16SS103J
R 589	(A,108,22)	RS1/16SS473J
R 590	(A,110,22)	RS1/16SS473J
R 591	(A,117,26)	RS1/16SS471J
R 592	(B,118,29)	RS1/16SS471J
R 593	(A,115,28)	RS1/16SS471J
R 594	(A,114,37)	RS1/16SS102J
R 598	(A,94,44)	RS1/16SS102J
R 600	(A,115,37)	RS1/16SS102J
R 601	(B,66,85)	RS1/16SS102J
R 602	(B,64,51)	RS1/16SS102J
R 603	(B,70,67)	RS1/16SS103J
R 604	(A,65,86)	RS1/16SS103J
R 605	(A,56,84)	RS1/16SS103J
R 606	(B,69,86)	RS1/16SS103J
R 607	(A,62,82)	RS1/16SS223J
R 608	(A,63,83)	RS1/16SS223J
R 609	(B,46,80)	RS1/16SS7503D
R 610	(A,60,88)	RS1/4SR22J
R 611	(B,45,80)	RS1/16SS1303D
R 612	(B,41,78)	RS1/16SS7503D
R 613	(B,41,77)	RS1/16SS1303D
R 614	(A,37,71)	RS1/16SS750J
R 615	(B,43,59)	RS1/16SS1001D
R 616	(B,41,59)	RS1/16SS1000D
R 617	(B,39,59)	RS1/16SS24R0D
R 618	(B,41,60)	RS1/16SS160J
R 619	(B,62,45)	RS1/16SS103J
R 620	(A,47,70)	RS1/16SS750J
R 621	(B,52,58)	RS1/16SS1001D
R 622	(B,54,58)	RS1/16SS1800D
R 623	(B,55,59)	RS1/16SS33R0D
R 624	(B,54,59)	RS1/16SS160J
R 625	(B,62,46)	RS1/16SS103J
R 627	(A,32,81)	RS1/16SS220J
R 628	(B,55,49)	RS1/16SS391J
R 629	(B,56,52)	RS1/16SS223J
R 631	(B,61,49)	RS1/16SS472J
R 632	(B,59,49)	RS1/16SS220J
R 633	(B,66,62)	RS1/8S0R0J
R 635	(A,68,86)	RS1/16SS221J
R 636	(B,64,57)	RS1/16SS221J
R 638	(B,40,83)	RS1/16SS1203D
R 639	(B,40,82)	RS1/16SS1502D
R 640	(B,40,81)	RS1/16SS6802D
R 641	(B,40,80)	RS1/16SS1202D
R 644	(A,21,74)	RS1/16SS223J
R 645	(A,32,84)	RS1/10S121J
R 646	(A,33,81)	RS1/16SS102J
R 647	(B,41,76)	RS1/16SS103J

Circuit Symbol and No.		Part No.
R 648	(B,47,80)	RS1/16SS103J
R 651	(A,41,70)	RS1/16SS100J
R 652	(A,52,70)	RS1/16SS100J
R 701	(B,28,95)	RS1/16SS221J
R 702	(B,29,95)	RS1/16SS471J
R 703	(B,32,95)	RS1/16SS331J
R 704	(A,31,93)	RS1/16SS223J
R 705	(B,33,91)	RS1/16SS471J
R 706	(B,33,95)	RS1/16SS223J
R 707	(B,61,139)	RS1/16SS333J
R 708	(B,64,142)	RS1/16SS223J
R 709	(B,60,139)	RS1/16SS473J
R 710	(B,58,142)	RS1/16SS152J
R 711	(B,56,140)	RS1/16SS222J
R 712	(B,59,137)	RS1/16SS223J
R 713	(B,56,139)	RS1/16SS473J
R 714	(B,71,137)	RS1/16SS153J
R 715	(B,71,139)	RS1/16SS180J
R 716	(B,72,139)	RS1/16SS223J
R 717	(A,156,17)	RS1/16SS470J
R 718	(A,159,20)	RS1/16SS152J
R 719	(A,150,17)	RS1/16SS223J
R 720	(A,161,20)	RS1/16SS472J
R 721	(A,159,16)	RS1/16SS821J
R 722	(A,159,14)	RS1/16SS153J
R 723	(A,162,19)	RS1/16SS470J
R 724	(B,163,15)	RS1/16SS223J
R 725	(A,164,14)	RS1/16SS222J
R 726	(A,163,19)	RS1/16SS472J
R 727	(A,128,49)	RS1/16SS152J
R 728	(A,131,47)	RS1/16SS822J
R 729	(A,135,47)	RS1/16SS223J
R 730	(A,132,47)	RS1/16SS222J
R 731	(A,142,46)	RS1/16SS2R2J
R 732	(A,130,49)	RS1/16SS103J
R 733	(B,30,21)	RS1/16SS103J
R 734	(B,34,24)	RS1/16SS101J
R 735	(B,23,20)	RS1/16SS223J
R 736	(B,30,20)	RS1/16SS103J
R 737	(B,37,23)	RS1/16SS223J
R 738	(B,36,19)	RS1/16SS102J
R 739	(A,30,91)	RS1/16SS821J
R 740	(A,14,93)	RS1/16SS821J
R 741	(B,22,82)	RS1/8S511J
R 742	(B,24,82)	RS1/8S511J
R 801	(B,51,95)	RS1/16SS223J
R 802	(B,54,98)	RS1/16SS104J
R 803	(B,53,100)	RS1/16SS105J
R 804	(B,54,96)	RS1/16SS105J
R 805	(B,42,101)	RS1/16SS221J
R 806	(B,19,99)	RS1/16SS222J
R 807	(B,24,91)	RS1/16SS473J
R 808	(B,25,91)	RS1/16SS471J
R 809	(B,16,86)	RS1/16SS472J
R 810	(B,13,83)	RS1/16SS220J
R 811	(B,12,88)	RS1/16SS223J
R 812	(B,11,89)	RS1/16SS224J
R 814	(B,14,97)	RS1/16SS225J
R 815	(B,19,98)	RS1/16SS182J
R 816	(B,16,83)	RS1/16SS223J

Circuit Symbol and No.		Part No.
R 817	(B,16,84)	RS1/16SS102J
R 818	(B,44,98)	RS1/16SS3301D
R 819	(B,45,100)	RS1/16SS1001D
R 820	(B,54,88)	RS1/16SS104J
R 821	(B,54,92)	RS1/16SS104J
R 822	(B,54,94)	RS1/16SS105J
R 823	(B,54,90)	RS1/16SS105J
R 824	(B,44,90)	RS1/16SS105J
R 825	(B,42,94)	RS1/16SS221J
R 826	(B,44,92)	RS1/16SS3301D
R 827	(B,45,93)	RS1/16SS1001D
R 984	(B,59,22)	RS1/16S0R0J
R 1001	(A,89,98)	RS1/16SS1402F
R 1002	(B,78,95)	RS1/16SS104J
R 1003	(A,83,99)	RS1/16SS473J
R 1004	(B,89,95)	RS1/16SS183J
R 1005	(B,85,92)	RS1/16SS104J
R 1007	(A,84,97)	RS1/16SS1402F
R 1008	(B,89,93)	RS1/16SS183J
R 1010	(A,78,98)	RS1/16SS0R0J
R 1011	(A,79,97)	RS1/16SS0R0J

CAPACITORS

C 11	(B,162,104)	CCSSCJ3R0C50
C 12	(A,158,99)	CCSSCH220J50
C 13	(B,135,64)	CKSSYB472K25
C 15	(A,141,69)	CCSSCH220J50
C 16	(B,139,67)	CKSSYB331K50
C 17	(A,141,67)	CCSSCH150J50
C 18	(A,139,67)	CCSSCH5R0C50
C 20	(A,141,61)	CKSSYB103K16
C 22	(A,138,57)	CKSSYB222K50
C 23	(A,132,57)	CKSSYB472K25
C 24	(B,126,60)	CCSSCH220J50
C 25	(A,131,64)	CCSRCH8R0D50
C 26	(A,131,65)	CKSSYB102K50
C 27	(A,128,57)	CKSSYB222K50
C 29	(A,123,57)	CKSSYB472K25
C 30	(A,122,64)	CCSRCH8R0D50
C 31	(A,122,65)	CKSSYB102K50
C 32	(B,136,56)	CKSRYB105K10
C 33	(B,135,56)	CKSSYB222K50
C 34	(B,130,56)	CCSSCH220J50
C 35	(B,125,56)	CKSSYB102K50
C 36	(B,162,108)	CCSSCJ3R0C50
C 37	(A,158,108)	CCSSCH220J50
C 38	(B,136,81)	CKSSYB472K25
C 40	(A,141,85)	CCSSCH220J50
C 41	(B,139,84)	CKSSYB331K50
C 42	(A,141,84)	CCSSCH150J50
C 43	(A,139,84)	CCSSCH5R0C50
C 45	(A,141,78)	CKSSYB103K16
C 47	(A,138,74)	CKSSYB222K50
C 48	(A,132,74)	CKSSYB472K25
C 49	(B,126,77)	CCSSCH220J50
C 50	(A,131,81)	CCSRCH8R0D50
C 51	(A,131,82)	CKSSYB102K50
C 52	(A,128,74)	CKSSYB222K50
C 54	(A,123,74)	CKSSYB472K25

Circuit Symbol and No.		Part No.
C 55	(A,122,81)	CCSRCH8R0D50
C 56	(A,122,82)	CKSSYB102K50
C 57	(B,136,73)	CKSRYB105K10
C 58	(B,135,72)	CKSSYB222K50
C 59	(B,130,72)	CCSSCH220J50
C 60	(B,125,72)	CKSSYB102K50
C 61	(B,163,111)	CKSSYB103K16
C 62	(B,162,111)	CCSSCH101J50
C 90	(A,139,68)	CCSSCH8R0D50
C 91	(A,139,85)	CCSSCH8R0D50
C 102	(B,157,84)	CKSSYB222K50
C 103	(B,153,85)	CKSSYB104K10
C 106	(A,149,39)	CKSSYB103K16
C 107	(A,149,44)	CEVW101M16
C 108	(B,156,26)	CKSSYB222K50
C 109	(B,156,30)	CKSSYB222K50
C 110	(B,155,47)	CCSSCH151J50
C 111	(A,149,64)	CCSSCH101J50
C 112	(A,149,69)	CEVW101M16
C 113	(A,150,64)	CKSSYB103K16
C 115	(A,151,52)	CSZSR470M10
C 116	(A,148,53)	CKSSYB103K16
C 118	(A,151,57)	CSZSR470M10
C 119	(A,148,59)	CKSSYB103K16
C 130	(A,157,100)	CKSSYB103K16
C 132	(A,149,116)	CCSSCH101J50
C 133	(B,143,121)	CKSSYB104K10
C 134	(A,156,113)	CEVW101M16
C 135	(A,151,115)	CKSSYB103K16
C 138	(A,133,116)	CKSSYB103K16
C 140	(A,108,114)	CSZSR470M10
C 141	(A,129,113)	CEVW101M16
C 142	(A,109,117)	CKSSYB103K16
C 144	(B,145,123)	CKSSYB222K50
C 145	(B,121,129)	CSZSR470M10
C 146	(B,120,127)	CKSSYB103K16
C 149	(B,103,88)	CKSRYB105K10
C 150	(B,147,65)	CKSSYB222K50
C 151	(A,118,115)	CCSSCH151J50
C 152	(B,105,88)	CKSRYB105K10
C 154	(B,133,49)	CKSSYB222K50
C 155	(A,131,94)	CCSSCH101J50
C 156	(A,124,103)	CCSSCH100D50
C 157	(A,133,94)	CKSSYB104K10
C 159	(A,124,101)	CKSSYB104K10
C 160	(A,125,98)	CCSSCH101J50
C 161	(A,124,93)	CKSSYB104K10
C 162	(A,128,98)	CKSSYB102K50
C 163	(A,131,98)	CCSSCH100D50
C 164	(A,131,104)	CCSSCH100D50
C 175	(B,22,117)	CKSSYB103K16
C 176	(B,26,121)	CKSSYB103K16
C 201	(B,37,113)	CCSQCH471J50
C 202	(B,45,112)	CCSQCH471J50
C 203	(B,42,112)	CCSQCH471J50
C 204	(B,48,112)	CCSQCH471J50
C 205	(B,98,103)	CKSRYB105K10
C 206	(B,96,103)	CKSRYB105K10
C 207	(B,94,103)	CKSRYB105K10
C 208	(B,92,103)	CKSRYB105K10
C 209	(B,93,101)	CCSSCH220J50
C 210	(B,96,101)	CCSSCH220J50
C 211	(B,93,98)	CCSSCH220J50
C 212	(B,98,98)	CCSSCH220J50
C 213	(B,106,92)	CKSSYB102K50
C 214	(B,102,93)	CKSSYB102K50
C 215	(A,105,95)	CCSSCH220J50
C 216	(B,101,99)	CCSSCH220J50
C 219	(B,85,96)	CKSRYB105K10
C 220	(B,86,98)	CCSSCH470J50
C 221	(B,31,99)	CKSSYB104K10
C 222	(B,89,98)	CCSSCH470J50
C 223	(B,87,92)	CCSSCH470J50
C 224	(B,82,94)	CKSRYB105K10
C 225	(B,87,95)	CCSSCH470J50
C 226	(A,96,86)	CKSRYB105K10
C 227	(A,94,86)	CKSRYB105K10
C 243	(A,104,78)	CKSSYB103K16
C 244	(A,104,74)	CEVW470M16
C 245	(B,88,79)	CCSSCH220J50
C 246	(B,89,69)	CCSSCH220J50
C 247	(A,90,90)	CKSSYB104K10
C 249	(B,93,78)	CCSSCH220J50
C 250	(B,94,69)	CCSSCH220J50
C 251	(A,96,71) 10 µF/16 V	CCH1585
C 252	(A,96,67) 10 µF/16 V	CCH1585
C 253	(A,94,76) 10 µF/16 V	CCH1585
C 254	(A,94,81) 10 µF/16 V	CCH1585
C 255	(A,74,115)	CKSQYB103K50
C 256	(A,70,115)	CKSQYB103K50
C 257	(A,72,115)	CKSQYB103K50
C 258	(A,68,115)	CKSQYB103K50
C 259	(B,107,70)	CCSSCH220J50
C 260	(B,96,71)	CCSSCH220J50
C 261	(B,97,77)	CCSSCH220J50
C 262	(B,104,79)	CCSSCH220J50
C 263	(B,108,74) 10 µF	CCG1182
C 264	(B,106,80) 10 µF	CCG1182
C 265	(A,82,86) 10 µF	CCG1182
C 266	(A,84,86) 10 µF	CCG1182
C 267	(B,17,133)	CKSQYB471K50
C 268	(B,14,133)	CKSQYB471K50
C 269	(B,19,133)	CKSQYB471K50
C 270	(B,15,133)	CKSQYB471K50
C 271	(B,86,88)	CKSSYB103K16
C 272	(B,88,88)	CKSSYB103K16
C 273	(A,35,107)	CKSSYB103K16
C 274	(A,33,107)	CKSSYB103K16
C 301	(B,53,115)	CKSQYB222K50
C 302	(B,34,140)	CKSQYB223K50
C 303	(B,45,138)	CKSQYB473K50
C 304	(B,49,137)	CKSQYB103K50
C 305	(B,38,140)	CKSQYB223K50
C 306	(B,49,139)	CKSQYB473K50
C 308	(B,75,132)	CKSQYB222K50
C 310	(B,56,134)	CKSQYB223K50
C 311	(B,56,136)	CKSQYB223K50
C 312	(B,24,119)	CKSQYB103K50
C 313	(B,21,119)	CKSQYB103K50
C 314	(B,15,138)	CKSQYB102K50

Circuit Symbol and No.		Part No.
C 315	(B,14,138)	CKSQYB102K50
C 316	(A,88,57)	CKSSYB104K10
C 317	(B,87,60)	CKSRYB474K10
C 318	(B,91,27)	CKSSYB104K10
C 320	(B,40,137)	CCSQCH181J50
C 321	(B,33,138)	CCSQCH181J50
C 322	(B,60,114)	CKSSYB102K50
C 323	(B,22,136)	CKSSYB102K50
C 324	(B,29,139)	CKSRYB103K50
C 325	(A,80,19)	CKSRYB105K10
C 326	(A,78,19)	CKSRYB105K10
C 327	(B,60,136)	CKSSYB472K25
C 328	(B,20,142)	CKSRYB104K50
C 329	(B,21,137)	CKSRYB102K50
C 330	(B,19,138)	CKSQYB102K50
C 331	(B,17,138)	CKSQYB102K50
C 332	(B,87,61)	CKSSYB103K16
C 333	(B,74,134)	CKSQYB102K50
C 334	(B,72,135)	CKSQYB102K50
C 381	(B,101,68)	CKSRYB102K50
C 382	(A,105,67)	CKSSYB102K50
C 383	(A,97,63)	CKSQYB225K10
C 384	(A,101,65)	CKSQYB225K10
C 385	(A,82,72) 10 µF/16 V	CCH1585
C 386	(A,82,67) 10 µF/16 V	CCH1585
C 387	(A,82,76) 10 µF/16 V	CCH1585
C 388	(A,82,81) 10 µF/16 V	CCH1585
C 389	(A,24,120) 10 µF	CCG1182
C 390	(A,24,115) 10 µF	CCG1182
C 391	(A,21,115) 10 µF	CCG1182
C 392	(A,22,120) 10 µF	CCG1182
C 393	(A,81,94) 10 µF	CCG1182
C 394	(A,85,91) 10 µF	CCG1182
C 395	(A,31,109) 10 µF	CCG1182
C 396	(A,30,107) 10 µF	CCG1182
C 405	(A,24,41)	CEVW100M10
C 406	(A,24,46)	CEVW100M10
C 407	(A,24,35)	CKSSYB102K50
C 408	(A,19,36)	CKSQYB225K10
C 409	(B,146,7)	CKSSYB102K50
C 410	(B,148,7)	CKSSYB102K50
C 411	(B,150,7)	CKSSYB102K50
C 412	(B,151,7)	CKSSYB102K50
C 413	(B,154,7)	CCSSCH101J50
C 414	(B,155,7)	CCSSCH101J50
C 415	(B,156,7)	CCSSCH101J50
C 416	(B,157,7)	CCSSCH101J50
C 417	(B,158,7)	CCSSCH101J50
C 418	(B,159,7)	CCSSCH101J50
C 419	(B,161,7)	CKSSYB102K50
C 420	(B,162,7)	CCSSCH101J50
C 421	(A,19,27)	CKSSYB102K50
C 422	(B,25,34)	CKSSYB102K50
C 423	(B,25,33)	CKSSYB102K50
C 424	(B,20,37)	CKSSYB102K50
C 425	(B,22,33)	CKSSYB102K50
C 429	(A,22,16)	CKSRYB102K50
C 431	(B,25,37)	CKSSYB104K10
C 445	(B,86,65)	CKSSYB104K10
C 446	(A,89,68)	CEVW101M16
C 502	(B,97,40)	CSZSR470M10
C 503	(B,95,39)	CKSSYB102K50
C 504	(A,97,20)	CKSSYB104K10
C 507	(A,119,25)	CKSSYB104K10
C 508	(A,122,29)	CKSSYB104K10
C 509	(A,85,21)	CKSSYB472K25
C 510	(A,83,23)	CKSSYB472K25
C 512	(B,150,89)	CKSSYB223K16
C 513	(A,86,98)	CKSRYB105K10
C 514	(A,82,97)	CKSRYB105K10
C 602	(B,69,84)	CKSRYB104K50
C 603	(A,28,72) 470 µF/10 V	CCH1677
C 604	(B,61,77)	CKSYB225K16
C 605	(A,92,139) 1 000 µF/16 V	CCH1681(P45)
C 606	(A,61,85)	CKSQYB105K16
C 607	(A,65,54)	CEVLW470M16
C 608	(A,45,79) 10 µF	CCG1182
C 609	(A,46,76) 10 µF	CCG1182
C 610	(A,44,76) 10 µF	CCG1182
C 611	(A,36,76)	CKSRYB154K10
C 612	(A,37,73)	CKSSYB123K16
C 613	(A,43,70)	CKSSYB104K10
C 614	(A,39,70)	CKSRYB105K10
C 615	(B,43,55) 10 µF	CCG1182
C 616	(B,43,57) 10 µF	CCG1182
C 617	(B,43,60)	CKSSYB473K10
C 618	(B,61,53)	CKSRYB104K50
C 620	(A,47,8)	CKSSYB102K50
C 621	(B,36,87)	CKSSYB102K50
C 622	(B,36,84)	CSZSR470M10
C 623	(B,33,83)	CKSRYB474K10
C 624	(A,139,139) 2 200 µF/16 V	CCH1405(P45)
C 626	(A,55,79) 10 µF	CCG1182
C 627	(A,46,71)	CKSRYB154K10
C 628	(A,47,71)	CKSSYB123K16
C 629	(A,54,70)	CKSSYB104K10
C 630	(A,50,70)	CKSRYB105K10
C 631	(B,52,55) 10 µF	CCG1171
C 632	(B,52,57) 10 µF	CCG1171
C 633	(B,52,59)	CKSSYB473K10
C 634	(A,57,76) 10 µF	CCG1182
C 635	(A,55,76) 10 µF	CCG1182
C 636	(A,29,77)	CKSRYB103K50
C 637	(A,33,83)	CKSSYB103K16
C 640	(B,65,52)	CKSRYB104K50
C 701	(B,132,137)	CKSRYB473K50
C 702	(B,130,137)	CKSRYB473K50
C 703	(A,151,140) 2 200 µF/16 V	CCH1676(P45)
C 704	(A,26,87)	CKSRYB474K10
C 705	(A,23,82) 470 µF/10 V	CCH1677
C 706	(B,31,95)	CKSSYB102K50
C 707	(B,65,131)	CKSQYB103K50
C 708	(B,70,131)	CKSQYB103K50
C 709	(A,149,14)	CKSRYB104K50
C 710	(A,160,20)	CKSSYB104K10
C 711	(A,158,15)	CKSQYB105K16
C 712	(A,164,15)	CKSSYB104K10
C 713	(A,142,50)	CKSRYB104K50
C 714	(A,130,50)	CKSSYB103K16
C 715	(A,142,48)	CKSRYB103K50

Circuit Symbol and No.			Part No.
C 716	(B,21,24)		CKSRYB104K50
C 717	(B,24,25)		CKSYB475K16
C 718	(B,37,22)		CKSSYB102K50
C 719	(B,58,141)		CKSSYB103K16
C 721	(A,112,57)		CKSSYB102K50
C 724	(A,137,11)		CKSSYB102K50
C 751	(B,26,85)		CKSSYB272K50
C 761	(B,124,137)		CKSRYB473K50
C 762	(B,126,137)		CKSRYB473K50
C 763	(A,103,140)	3 300 µF/16 V	CCH1486(P45)
C 764	(A,22,98)		CSZSC101M10
C 765	(B,24,86)		CKSRYB473K50
C 766	(A,10,99)		CKSRYB105K10
C 767	(B,15,83)		CCSSCH221J50
C 768	(B,16,90)		CKSYB475K16
C 769	(B,15,97)		CKSSYB104K10
C 770	(B,22,90)		CKSYB225K16
C 771	(B,14,81)		CKSRYB105K10
C 772	(B,22,100)		CKSSYB104K10
C 773	(A,19,106)		CKSSYB104K10
C 801	(B,48,88)		CKSYB475K16
C 802	(B,54,100)		CCSSCH470J50
C 803	(A,38,101)		CKSYB475K16
C 804	(B,54,97)		CCSSCH470J50
C 805	(B,45,97)		CKSSYB104K10
C 806	(B,48,95)		CKSSYB103K16
C 807	(A,52,92)		CSZSC101M10
C 809	(B,39,101)		CKSYB475K16
C 810	(B,36,101)		CCSSCH470J50
C 812	(B,40,96)		CKSSYB103K16
C 813	(A,43,98)		CSZSR220M10
C 814	(A,47,100)		CSZSC101M10
C 815	(B,54,93)		CCSSCH470J50
C 816	(B,54,91)		CCSSCH470J50
C 817	(B,52,89)		CKSSYB103K16
C 819	(B,45,90)		CCSSCH470J50
C 820	(A,41,89)		CKSYB475K16
C 822	(B,39,94)		CKSYB475K16
C 823	(B,36,94)		CCSSCH470J50
C 825	(B,40,89)		CKSSYB103K16
C 826	(A,43,93)		CSZSR220M10
C 827	(A,47,92)		CSZSC101M10
C 828	(A,37,98)		CKSYB475K16
C 926	(A,44,13)		CKSSYB102K50

Keyboard Unit
Consists of
Keyboard PCB
Keyboard L PCB
Keyboard R PCB

BCD

Unit Number :
Unit Name : Keyboard Unit

MISCELLANEOUS

IC 2001	(B,78,16)	IC	LC75700TS

Circuit Symbol and No.			Part No.
Q 2001	(B,78,54)	Transistor	IMX1
Q 2002	(B,72,49)	Transistor	2SC4081
Q 2003	(B,48,32)	Transistor	2SA1235A-12
Q 2004	(B,155,19)	Transistor	2SA1235A-12
Q 2006	(B,155,36)	Transistor	2SA1235A-12
Q 2007	(B,23,56)	Transistor	2SA1235A-12
Q 2010	(B,48,40)	Transistor	2SA1235A-12
Q 2012	(B,155,41)	Transistor	2SA1235A-12
Q 2013	(B,70,9)	Digital Transistor	DTC144EUA
Q 2014	(B,155,31)	Transistor	2SA1235A-12
Q 2015	(B,23,60)	Transistor	2SA1235A-12
Q 2018	(B,155,26)	Transistor	2SA1235A-12
Q 2019	(B,136,11)	Transistor	2SC4081
D 2001	(B,48,53)	Diode	1SS355
D 2002	(A,84,64)	LED	VFY1105W-3CX2D
D 2003	(A,97,64)	LED	VFY1105W-3CX2D
D 2004	(B,18,53)	Diode	1SS355
D 2005	(B,20,46)	Diode	1SS355
D 2006	(A,89,64)	LED	VYPY1105W-3C42A
D 2007	(A,102,64)	LED	VYPY1105W-3C42A
D 2014	(B,113,15)	Diode	1SS355
D 2015	(B,124,10)	Diode	1SS355
D 2030	(B,18,56)	Diode	1SS355
D 2031	(B,164,32)	Diode	1SS355
D 2051	(A,170,72)	LED	NHSB046AR11-7269
D 2052	(A,16,72)	LED	NHSB046AR11-7269
D 2053	(A,35,47)	LED	NHSB046AR11-7269
D 2054	(A,35,35)	LED	NHSB046AR11-7269
D 2055	(A,72,33)	LED	NHSB046AR11-7269
D 2056	(A,72,49)	LED	NHSB046AR11-7269
D 2057	(A,114,49)	LED	NHSB046AR11-7269
D 2058	(A,114,33)	LED	NHSB046AR11-7269
D 2059	(A,151,47)	LED	NHSB046AR11-7269
D 2060	(A,151,35)	LED	NHSB046AR11-7269
D 2061	(B,134,23)	Diode	1SS355
D 2063	(B,130,23)	Diode	1SS355
D 2066	(B,124,23)	Diode	1SS355
D 2072	(B,116,23)	Diode	1SS355
D 2073	(B,140,11)	Diode	UDZS5R1(B)
D 2076	(B,82,27)	Diode	1SS355
D 2081	(A,19,53)	LED	NHSB046AR11-7269
D 2082	(A,19,10)	LED	NHSB046AR11-7269
D 2083	(A,18,53)	LED	NHSB046AR11-7269
D 2084	(A,18,10)	LED	NHSB046AR11-7269
D 2085	(A,170,50)	LED	NHSB046AR11-7269
D 2086	(A,17,50)	LED	NHSB046AR11-7269
L 2001	(B,66,16)	Chip Coil	LCTAW100J2520
S 2021	(A,18,32)	Encoder	CSD1130
S 2022	(A,19,32)	Encoder	CSD1131

RESISTORS

R 2001	(B,70,54)	RS1/16S102J
R 2002	(B,78,49)	RS1/10S271J
R 2003	(B,67,50)	RS1/10S820J
R 2004	(B,66,48)	RS1/16S223J
R 2005	(B,83,52)	RS1/10S820J
R 2006	(B,66,42)	RS1/16S472J
R 2007	(B,70,52)	RS1/16S102J
R 2008	(B,46,28)	RS1/16S3300D
R 2009	(B,151,20)	RS1/16S3300D

Circuit Symbol and No.		Part No.
R 2011	(B,151,35)	RS1/16S5600D
R 2012	(B,27,55)	RS1/16S5600D
R 2017	(B,158,22)	RS1/16S102J
R 2018	(B,46,35)	RS1/16S2700D
R 2019	(B,50,28)	RS1/16S102J
R 2020	(B,151,40)	RS1/16S2700D
R 2021	(B,27,57)	RS1/16S102J
R 2022	(B,151,30)	RS1/16S5600D
R 2023	(B,158,40)	RS1/16S102J
R 2024	(B,158,30)	RS1/16S102J
R 2026	(B,85,19)	RS1/16S102J
R 2027	(B,85,20)	RS1/16S102J
R 2028	(B,85,22)	RS1/16S102J
R 2029	(B,70,13)	RS1/16S473J
R 2030	(B,85,23)	RS1/16S102J
R 2031	(B,73,21)	RS1/16S102J
R 2032	(B,69,21)	RS1/16S102J
R 2033	(B,68,21)	RS1/16S102J
R 2034	(B,63,21)	RS1/16S102J
R 2035	(B,71,15)	RS1/16S472J
R 2036	(B,151,25)	RS1/16S3300D
R 2037	(B,158,25)	RS1/16S5600D
R 2038	(B,135,14)	RS1/16S271J
R 2039	(B,133,14)	RS1/16S223J
R 2040	(B,132,10)	RS1/16S472J
R 2041	(B,27,59)	RS1/16S4700D
R 2042	(B,27,61)	RS1/16S102J
R 2046	(B,85,17)	RS1/16S102J
R 2048	(B,82,11)	RS1/16S102J
R 2049	(B,84,13)	RS1/16S102J
R 2050	(B,86,13)	RS1/16S102J
R 2051	(B,87,13)	RS1/16S102J
R 2052	(B,89,13)	RS1/16S102J
R 2054	(B,112,23)	RS1/16S100J
R 2055	(B,108,23)	RS1/16S100J
R 2058	(B,103,23)	RS1/16S100J
R 2060	(B,63,37)	RS1/16S100J
R 2061	(B,27,53)	RS1/16S0R0J
R 2063	(B,158,35)	RS1/16S102J
R 2064	(B,50,35)	RS1/16S102J
R 2065	(B,73,10)	RS1/16S393J
R 2080	(B,54,17)	RS1/16S100J
R 2081	(B,53,22)	RS1/16S100J
R 2082	(B,53,19)	RS1/16S100J
R 2083	(B,53,20)	RS1/16S100J

CAPACITORS

C 2001	(B,66,54)	CKSRYB103K50
C 2002	(B,66,47)	CKSRYB472K50
C 2003	(B,66,52)	CKSRYB103K50
C 2004	(B,73,8)	CKSRYB102K50
C 2005	(B,70,12)	CKSRYB102K50
C 2006	(B,65,21)	CCSRCH101J50
C 2007	(B,66,21)	CCSRCH101J50
C 2008	(B,70,21)	CCSRCH101J50
C 2009	(B,72,21)	CCSRCH101J50
C 2010	(B,151,22)	CKSRYB473K50
C 2011	(B,131,14)	CKSRYB472K50
C 2012	(B,67,13)	CKSRYB104K25

Circuit Symbol and No.		Part No.
C 2013	(B,139,14)	CKSRYB104K25
C 2014	(B,64,13)	CKSRYB104K25
C 2015	(B,141,14)	CKSRYB104K25

Connector Unit
Consists of
Connector PCB(1)
Connector PCB(2)

GH

Unit Number : CWN2568
Unit Name : Connector Unit

MISCELLANEOUS

IC 1101	(A,27,4)	IC	TC7W04FU
D 1003	(B,18,30)	Diode	NNCD6R8LG
D 1004	(B,24,29)	Diode	UDZS18(B)
D 1005	(B,26,29)	Diode	UDZS18(B)
D 1006	(B,28,29)	Diode	UDZS18(B)
D 1007	(B,30,29)	Diode	UDZS18(B)
D 1101	(B,6,17)	Diode	UDZS18(B)
D 1102	(B,11,8)	Diode	UDZS18(B)
D 1103	(B,27,11)	Diode	UDZS18(B)
D 1104	(B,27,14)	Diode	UDZS18(B)
D 1105	(B,13,8)	Diode	UDZS18(B)
D 1106	(B,6,20)	Diode	UDZS18(B)
L 1101	(B,31,5)	Inductor	LCTAW101J2520
L 1102	(A,22,6)	Inductor	LCYB47NJ1608
L 1103	(A,26,13)	Coil	CTC1184
L 1104	(A,22,4)	Inductor	LCYB47NJ1608
EF1001	(A,63,12)	EMI Filter	CCG1076
EF1101	(A,7,17)	EMI Filter	CCG1076
EF1102	(A,7,13)	EMI Filter	CCG1076
EF1103	(A,7,22)	EMI Filter	CCG1076

RESISTORS

R 1001	(A,66,11)	RS1/10S750J
R 1101	(A,31,11)	RS1/10S271J
R 1102	(A,31,12)	RS1/10S101J
R 1103	(A,23,9)	RS1/16SS101J
R 1104	(A,5,27)	RS1/10S750J
R 1106	(B,36,12)	RS1/10S101J
R 1107	(A,35,11)	RS1/10S101J
R 1108	(B,38,12)	RS1/10S271J
R 1109	(A,35,12)	RS1/10S271J

CAPACITORS

C 1018	(B,19,25)	CKSRYB102K50
C 1019	(B,22,28)	CKSRYB152K50
C 1020	(B,33,27)	CKSRYB152K50
C 1021	(A,50,10)	CKSRYB152K50
C 1101	(B,24,6)	CKSRYB105K6R3
C 1102	(A,22,9)	CCSSCH470J50
C 1103	(A,27,6)	CCSSCH680J50
C 1104	(A,25,6)	CKSSYB103K16
C 1105	(A,26,8)	CSZSR470M10
C 1106	(A,23,3)	CCSSCH5R0C50
C 1107	(A,22,7)	CCSSCH5R0C50

E

Unit Number : CWX3543
Unit Name : DVD Core Unit

MISCELLANEOUS

Circuit Symbol and No.	Part No.
IC 1001 (A,7,9) IC	S-L2980A50MC-C7J
IC 1003 (A,83,36) IC	LTC3411EMS
IC 1201 (A,23,73) IC	AN8471SAT1
IC 1240 (A,49,74) IC	BD7962FM
IC 1501 (A,86,79) IC	MN35103UB
IC 1570 (B,68,87) IC	EDS1232AATA-75
IC 1601 (B,108,57) IC	PD6571A
IC 1602 (B,120,62) IC	TC7SH86FUS1
IC 1651 (B,108,27) IC	M5M5V216ATP-70HI
IC 1652 (B,98,36) IC	TC7SZ126FU
IC 1671 (B,108,43) IC	TC74LCX16373AFT
IC 1672 (B,98,40) IC	TC7SZ08FU
IC 1801 (B,33,92) IC	SM8707LV
IC 1802 (B,33,81) IC	TC7WH157FU
IC 1851 (B,16,87) IC	PCM1742KE
IC 1852 (B,17,79) IC	NJM2100V
IC 1853 (B,17,74) IC	NJM2100V
IC 1881 (B,14,45) IC	TC74VHC541FTS1
IC 1901 (A,23,56) IC	BA033SFP
IC 2001 (A,108,39) IC	PE5558A
IC 2002 (A,98,28) IC	BR93L56RFVM-W
IC 2003 (A,98,23) IC	TC74HC4053AFT
IC 2006 (B,122,25) IC	NJM2904V
Q 1002 (A,76,37) Chip Transistor	DTC114EUA
Q 1101 (A,53,91) Transistor	2SB1260
Q 1102 (A,53,97) Transistor	2SB1260
Q 1103 (A,58,102) Chip Transistor	DTC114EUA
Q 1104 (A,55,102) Transistor	2SA1576A
Q 1105 (A,50,102) Transistor	2SC4081
Q 1106 (A,63,93) Transistor	2SC4081
Q 1107 (A,63,99) Transistor	2SC4081
Q 1551 (A,107,98) Transistor	2SA1576A
Q 2001 (A,123,42) Transistor	2SA2018
D 1001 (A,12,7) Diode	1SR154-400
D 1101 (A,49,91) Diode	1SS355
D 1102 (A,49,96) Diode	1SS355
D 2001 (B,94,36) Diode	DAN202U
L 1001 (A,77,30) Inductor	CTF1623
L 1002 (A,86,26) Inductor	CTF1624
L 1022 (A,9,5) Inductor	CTF1558
L 1101 (A,19,99) Inductor	CTF1305
L 1501 (A,118,69) Inductor	CTF1378
L 1502 (A,121,61) Inductor	CTF1487
L 1503 (B,75,71) Inductor	CTF1488
L 1554 (A,89,98) Inductor	CTF1473
L 1555 (A,90,100) Inductor	CTF1473
L 1556 (A,96,103) Inductor	CTF1400
L 1557 (A,103,102) Inductor	CTF1395
L 1558 (A,106,84) Inductor	CTF1473
L 1559 (A,73,101) Inductor	CTF1387
L 1561 (A,112,97) Inductor	CTF1473
L 1601 (B,112,68) Inductor	CTF1464
L 1651 (B,120,35) Inductor	CTF1464
L 1671 (B,120,39) Inductor	CTF1473
L 1801 (B,27,93) Inductor	CTF1558
L 1802 (B,27,90) Inductor	CTF1558
L 1803 (B,30,76) Inductor	CTF1464
L 1804 (B,35,76) Inductor	CTF1385
L 1805 (B,35,87) Inductor	CTF1385
L 1851 (B,25,89) Inductor	CTF1379
L 1852 (B,25,83) Inductor	CTF1473
L 1881 (B,20,46) Inductor	CTF1473
L 1883 (B,19,51) Ferrite Bead	CTF1528
L 1884 (B,14,51) Inductor	CTF1389
L 1885 (B,13,51) Ferrite Bead	CTF1528
L 1886 (B,12,51) Ferrite Bead	CTF1528
L 1901 (B,17,15) Inductor	CTF1487
L 1902 (A,14,20) Inductor	CTF1558
L 1903 (A,16,22) Inductor	CTF1558
L 1904 (B,23,24) Inductor	CTF1468
L 1907 (B,23,22) Inductor	CTF1558
X 1801 (B,34,99) Oscillator 27.000 MHz	CSS1661
X 2001 (A,109,50) Oscillator 9.830 MHz	CSS1684
VR1551 (A,86,103) Semi-fixed 10 kohm(B)	CCP1448
EF1570 (B,75,74) Chip EMI Filter	DTF1106
EF1801 (B,27,87) Chip EMI Filter	DTL1106
EF1802 (B,30,79) Chip EMI Filter	DTL1106
EF1803 (B,27,96) Chip EMI Filter	DTL1106
EF1901 (A,11,20) Chip EMI Filter	DTL1106
EF1902 (A,13,22) Chip EMI Filter	DTL1106
EF1903 (B,21,24) Chip EMI Filter	DTL1106
EF1905 (B,13,15) Chip EMI Filter	DTF1106
EF1907 (B,21,22) Chip EMI Filter	DTL1106

RESISTORS

Circuit Symbol and No.	Part No.
R 1003 (A,85,41)	RS1/16SS1003D
R 1005 (A,83,41)	RS1/16SS1501D
R 1006 (A,85,42)	RS1/16SS8202D
R 1007 (A,83,42)	RS1/16SS1502D
R 1008 (A,81,42)	RS1/16SS101J
R 1010 (A,88,37)	RS1/16SS105J
R 1011 (A,79,37)	RS1/16SS105J
R 1013 (A,85,39)	RS1/16SS103J
R 1014 (A,79,39)	RS1/16SS1203D
R 1015 (A,78,39)	RS1/16SS2402D
R 1016 (A,77,39)	RS1/16SS0R0J
R 1017 (A,75,39)	RS1/16SS0R0J
R 1018 (A,89,37)	RS1/16SS105J
R 1021 (A,83,39)	RS1/16SS122J
R 1101 (A,61,90)	RS1/16S6R8J
R 1102 (A,57,91)	RS1/16SS3R9J
R 1103 (A,57,89)	RS1/16SS3R9J
R 1104 (A,56,89)	RS1/16SS3R9J
R 1105 (A,56,91)	RS1/16SS3R9J
R 1106 (A,61,97)	RS1/16S6R8J
R 1107 (A,57,98)	RS1/16SS3R9J
R 1108 (A,57,96)	RS1/16SS3R9J
R 1109 (A,56,96)	RS1/16SS3R9J
R 1110 (A,56,98)	RS1/16SS3R9J
R 1111 (A,54,104)	RS1/16SS272J
R 1112 (A,57,104)	RS1/16SS472J
R 1113 (A,50,104)	RS1/16SS102J

Circuit Symbol and No.		Part No.
R 1114	(A,56,94)	RS1/16SS221J
R 1115	(A,57,100)	RS1/16SS221J
R 1116	(A,63,95)	RS1/16SS331J
R 1117	(A,63,101)	RS1/16SS221J
R 1120	(A,57,93)	RS1/16SS0R0J
R 1201	(A,18,96)	RS1/16SS181J
R 1202	(A,14,95)	RS1/16SS181J
R 1203	(A,16,74)	RS1/16SS513J
R 1204	(A,16,71)	RS1/16SS221J
R 1206	(A,29,70)	RS1/16SS513J
R 1209	(A,19,88)	RS1/10S391J
R 1210	(A,15,88)	RS1/10S391J
R 1211	(A,29,76)	RS1/16SS1R0J
R 1212	(A,29,75)	RS1/16SS1R0J
R 1213	(A,29,74)	RS1/16SS1R0J
R 1214	(A,29,73)	RS1/16SS1R0J
R 1215	(A,29,72)	RS1/16SS1R0J
R 1216	(A,29,71)	RS1/16SS1R0J
R 1217	(A,15,75)	RS1/16SS102J
R 1251	(A,54,84)	RS1/16SS102J
R 1252	(A,51,85)	RS1/16SS472J
R 1253	(A,52,82)	RS1/16SS823J
R 1254	(A,52,84)	RS1/16SS122J
R 1255	(A,51,84)	RS1/16SS122J
R 1256	(A,51,82)	RS1/16SS682J
R 1257	(A,54,82)	RAB4CQ103J
R 1258	(A,47,84)	RS1/16SS223J
R 1259	(A,45,84)	RS1/16SS223J
R 1260	(A,46,82)	RS1/16SS393J
R 1261	(A,45,82)	RS1/16SS393J
R 1262	(A,54,67)	RS1/16SS273J
R 1263	(A,53,67)	RS1/16SS153J
R 1264	(A,52,67)	RS1/16SS102J
R 1265	(A,48,67)	RS1/16SS183J
R 1266	(A,47,67)	RS1/16SS333J
R 1272	(A,47,85)	RS1/16SS102J
R 1273	(A,45,85)	RS1/16SS102J
R 1274	(A,56,83)	RS1/10S0R0J
R 1501	(A,89,58)	RS1/16SS0R0J
R 1502	(A,80,63)	RS1/16SS0R0J
R 1503	(A,81,60)	RAB4CQ101J
R 1504	(A,82,58)	RS1/16SS0R0J
R 1505	(A,83,58)	RS1/16SS0R0J
R 1506	(A,84,60)	RAB4CQ101J
R 1507	(A,86,63)	RS1/16SS0R0J
R 1508	(A,87,60)	RAB4CQ101J
R 1509	(A,87,58)	RS1/16SS0R0J
R 1511	(A,90,60)	RAB4CQ101J
R 1512	(A,90,58)	RS1/16SS0R0J
R 1513	(A,92,59)	RS1/16SS473J
R 1514	(A,93,61)	RS1/16SS104J
R 1515	(A,105,66)	RS1/16SS222J
R 1521	(A,96,57)	RS1/16SS0R0J
R 1522	(A,103,68)	RS1/16SS103J
R 1523	(A,94,61)	RS1/16SS104J
R 1525	(A,95,59)	RS1/16SS102J
R 1526	(A,94,57)	RS1/16SS0R0J
R 1529	(A,95,57)	RS1/16SS0R0J
R 1530	(A,97,63)	RS1/16SS104J
R 1531	(A,99,60)	RS1/16S221J
R 1532	(A,100,60)	RS1/16SS104J
R 1536	(A,99,63)	RS1/16SS104J
R 1537	(A,100,63)	RS1/16SS104J
R 1539	(A,103,75)	RS1/16SS104J
R 1540	(A,103,70)	RS1/16SS221J
R 1541	(A,104,71)	RS1/16SS473J
R 1543	(A,103,72)	RS1/16SS104J
R 1544	(A,103,74)	RS1/16SS102J
R 1545	(A,104,74)	RS1/16SS102J
R 1546	(A,105,64)	RS1/16SS104J
R 1547	(A,104,75)	RS1/16SS330J
R 1548	(A,95,61)	RS1/16SS104J
R 1552	(A,73,102)	RS1/16S101J
R 1553	(A,76,101)	RS1/16S101J
R 1554	(A,77,101)	RS1/16S101J
R 1555	(A,79,98)	RS1/16S101J
R 1556	(A,80,101)	RS1/16S101J
R 1558	(A,85,96)	RS1/16SS750J
R 1561	(A,88,96)	RS1/16SS153J
R 1562	(A,109,96)	RS1/16SS471J
R 1563	(A,110,96)	RS1/16SS471J
R 1565	(A,112,95)	RS1/16S68R0D
R 1566	(A,114,95)	RS1/16S4R7J
R 1567	(A,83,102)	RS1/16SS273J
R 1568	(A,83,104)	RS1/16SS183J
R 1569	(A,84,98)	RS1/16SS153J
R 1570	(A,81,101)	RS1/16SS222J
R 1571	(A,73,99)	RAB4CQ101J
R 1572	(A,73,96)	RAB4CQ101J
R 1573	(A,67,91)	RAB4CQ101J
R 1574	(A,67,88)	RAB4CQ101J
R 1575	(A,67,86)	RS1/16SS560J
R 1576	(A,67,85)	RS1/16SS560J
R 1577	(A,67,83)	RAB4CQ560J
R 1578	(A,67,81)	RAB4CQ560J
R 1579	(A,69,79)	RS1/16SS220J
R 1580	(A,67,78)	RAB4CQ560J
R 1581	(A,67,76)	RS1/16SS560J
R 1582	(A,67,75)	RS1/16SS560J
R 1583	(A,67,74)	RS1/16SS560J
R 1584	(A,67,72)	RAB4CQ560J
R 1585	(A,67,70)	RS1/16SS560J
R 1586	(A,67,69)	RS1/16SS560J
R 1587	(A,67,67)	RAB4CQ101J
R 1588	(A,67,64)	RAB4CQ101J
R 1589	(A,74,60)	RAB4CQ101J
R 1590	(A,77,60)	RAB4CQ101J
R 1593	(B,61,86)	RS1/16SS104J
R 1595	(A,78,101)	RS1/16SS101J
R 1599	(A,71,101)	RS1/16S221J
R 1604	(B,120,60)	RS1/16SS0R0J
R 1608	(B,94,52)	RS1/16SS104J
R 1613	(B,96,64)	RS1/16SS0R0J
R 1621	(B,119,57)	RS1/16SS0R0J
R 1652	(B,103,35)	RS1/16SS104J
R 1653	(B,101,35)	RS1/16SS510J
R 1671	(B,103,49)	RAB4CQ101J
R 1672	(B,107,50)	RAB4CQ101J
R 1673	(B,109,50)	RAB4CQ101J
R 1674	(B,113,49)	RAB4CQ101J

Circuit Symbol and No.		Part No.
R 1675	(B,101,41)	RS1/16SS331J
R 1701	(A,103,69)	RS1/16SS103J
R 1702	(A,105,68)	RS1/16SS103J
R 1705	(A,90,98)	RN1/16SE1002D
R 1709	(A,93,100)	RS1/16S1502D
R 1710	(A,95,98)	RS1/16SS102J
R 1711	(A,97,99)	RS1/16SS683J
R 1712	(A,98,96)	RS1/16SS103J
R 1713	(A,99,96)	RS1/16SS103J
R 1714	(A,101,96)	RS1/16SS0R0J
R 1715	(A,104,94)	RS1/16SS0R0J
R 1716	(A,104,93)	RS1/16SS0R0J
R 1717	(A,104,92)	RS1/16SS0R0J
R 1718	(A,103,91)	RS1/16SS103J
R 1719	(A,104,91)	RS1/16SS103J
R 1720	(A,103,90)	RS1/16SS103J
R 1721	(A,104,90)	RS1/16SS103J
R 1723	(A,106,87)	RN1/16SE3901D
R 1729	(A,105,81)	RAB4CQ220J
R 1730	(A,105,78)	RAB4CQ220J
R 1733	(B,92,87)	RS1/16SS104J
R 1734	(B,91,87)	RS1/16SS104J
R 1801	(B,31,87)	RS1/16S0R0J
R 1802	(B,29,94)	RS1/16S151J
R 1803	(B,29,87)	RS1/16S151J
R 1804	(B,32,87)	RS1/16S221J
R 1805	(B,37,87)	RS1/16S271J
R 1806	(B,33,86)	RS1/16SS104J
R 1809	(B,33,77)	RS1/16SS0R0J
R 1811	(B,16,40)	RS1/16SS0R0J
R 1812	(B,15,40)	RS1/16SS0R0J
R 1813	(B,14,40)	RS1/16SS0R0J
R 1814	(B,13,40)	RS1/16SS0R0J
R 1821	(B,37,81)	RS1/16SS222J
R 1823	(B,36,96)	RS1/16SS101J
R 1825	(B,35,79)	RS1/16SS101J
R 1851	(B,11,91)	RS1/16SS0R0J
R 1855	(B,16,53)	RS1/16S0R0J
R 1856	(B,14,77)	RS1/16SS102J
R 1857	(B,14,82)	RS1/16SS102J
R 1858	(B,11,77)	RS1/16SS222J
R 1859	(B,11,82)	RS1/16SS222J
R 1860	(B,12,77)	RS1/16SS332J
R 1861	(B,12,82)	RS1/16SS332J
R 1862	(B,12,75)	RS1/16SS332J
R 1863	(B,12,80)	RS1/16SS332J
R 1864	(B,10,73)	RS1/16SS103J
R 1865	(B,10,78)	RS1/16SS103J
R 1866	(B,12,73)	RS1/16SS472J
R 1867	(B,12,78)	RS1/16SS472J
R 1868	(B,19,71)	RS1/16SS821J
R 1869	(B,12,71)	RS1/16SS821J
R 1870	(B,18,66)	RS1/16SS104J
R 1871	(B,12,66)	RS1/16SS104J
R 1875	(B,16,91)	RS1/16SS0R0J
R 1881	(B,20,49)	RS1/16SS104J
R 1882	(B,16,51)	RS1/16S221J
R 1889	(B,19,49)	RS1/16SS221J
R 1897	(B,37,84)	RS1/16SS101J
R 1899	(B,18,38)	RS1/16SS473J
R 1901	(A,18,24)	RS1/16SS221J
R 1903	(A,20,26)	RS1/16SS221J
R 1905	(A,18,50)	RS1/16SS102J
R 1922	(A,16,30)	RS1/16SS0R0J
R 1923	(A,117,82)	RS1/16SS221J
R 1924	(B,26,33)	RS1/16S221J
R 1927	(A,15,30)	RS1/16SS0R0J
R 1931	(B,25,26)	RS1/16SS0R0J
R 1933	(B,25,27)	RS1/16SS0R0J
R 1938	(A,16,36)	RS1/16SS0R0J
R 1945	(B,24,36)	RS1/16SS0R0J
R 1947	(A,115,77)	RS1/16SS221J
R 1954	(A,16,26)	RS1/16SS221J
R 1955	(A,18,27)	RS1/16SS221J
R 2000	(A,118,32)	RS1/16SS104J
R 2001	(A,120,32)	RS1/16SS104J
R 2002	(A,118,34)	RS1/16SS472J
R 2003	(A,118,35)	RS1/16SS104J
R 2006	(A,118,37)	RS1/16SS104J
R 2007	(A,120,37)	RS1/16SS104J
R 2008	(A,118,38)	RS1/16SS104J
R 2009	(A,120,38)	RS1/16SS103J
R 2010	(A,105,27)	RS1/16SS473J
R 2011	(A,118,40)	RS1/16SS103J
R 2012	(A,120,41)	RS1/16SS103J
R 2013	(A,120,42)	RS1/16SS223J
R 2016	(A,120,45)	RS1/16SS184J
R 2021	(A,104,52)	RS1/16SS104J
R 2022	(A,99,49)	RS1/16S221J
R 2023	(A,95,46)	RS1/16S221J
R 2037	(A,98,34)	RS1/16SS104J
R 2038	(A,96,32)	RS1/16SS104J
R 2040	(A,103,29)	RS1/16SS104J
R 2041	(A,104,27)	RS1/16SS221J
R 2042	(A,104,29)	RS1/16SS104J
R 2043	(A,106,29)	RS1/16SS104J
R 2044	(A,106,27)	RS1/16SS104J
R 2045	(A,107,29)	RS1/16SS104J
R 2046	(A,107,27)	RS1/16SS104J
R 2047	(A,108,29)	RS1/16SS104J
R 2048	(A,108,27)	RS1/16SS104J
R 2049	(A,109,29)	RS1/16SS104J
R 2050	(A,109,24)	RS1/16SS104J
R 2051	(A,112,24)	RS1/16SS104J
R 2054	(A,110,29)	RS1/16SS104J
R 2055	(A,112,29)	RS1/16SS104J
R 2057	(A,113,27)	RS1/16SS104J
R 2059	(A,120,34)	RS1/16SS104J
R 2060	(A,118,46)	RS1/16SS473J
R 2061	(A,118,45)	RS1/16SS682J
R 2062	(A,112,51)	RS1/16SS473J
R 2063	(A,106,54)	RS1/16SS104J
R 2064	(A,105,54)	RS1/16SS222J
R 2065	(A,106,52)	RS1/16SS473J
R 2067	(A,105,52)	RS1/16SS473J
R 2068	(A,104,49)	RS1/16SS104J
R 2073	(A,96,31)	RS1/16SS473J
R 2074	(A,98,31)	RS1/16SS472J
R 2075	(A,102,29)	RS1/16SS473J
R 2076	(B,92,42)	RS1/16SS0R0J

Circuit Symbol and No.			Part No.
R 2077	(A,122,39)		RS1/16SS272J
R 2078	(A,123,39)		RS1/16SS103J
R 2080	(A,103,23)		RS1/16SS272J
R 2081	(A,103,22)		RS1/16SS243J
R 2082	(A,104,50)		RS1/16SS221J
R 2083	(B,92,44)		RS1/16SS221J
R 2084	(A,97,35)		RS1/16SS221J
R 2086	(A,98,33)		RS1/16SS0R0J
R 2087	(A,83,51)		RS1/16S0R0J
R 2092	(A,105,25)		RS1/16SS103J
R 2093	(A,106,25)		RS1/16SS103J
R 2094	(A,120,28)		RS1/16S0R0J
R 2096	(A,98,48)		RS1/16SS104J
R 2097	(A,102,27)		RS1/16SS104J
R 2098	(A,115,29)		RS1/16SS104J
R 2109	(A,108,48)		RS1/16SS105J
R 2110	(A,75,55)		RS1/16SS392J
R 2111	(A,74,57)		RS1/16SS123J

CAPACITORS

Circuit Symbol and No.			Part No.
C 1001	(A,6,6)		CKSRYB224K10
C 1004	(A,9,9)		CKSRYB102K50
C 1005	(A,4,9)		CKSRYB105K10
C 1006	(A,76,23)		CKSRYB104K25
C 1007	(A,79,26)	22 μF	CCG1178
C 1008	(A,84,32)	22 μF	CCG1178
C 1009	(A,83,40)		CCSSCH220J50
C 1010	(A,81,39)		CKSSYB102K50
C 1012	(A,79,24)	22 μF	CCG1178
C 1013	(A,84,30)	22 μF	CCG1178
C 1017	(A,30,64)		CKSRYB105K10
C 1101	(A,29,83)		CSZSR220M16
C 1102	(A,59,91)		CSZSR101M6R3
C 1103	(A,56,93)		CKSSYB104K10
C 1104	(A,49,93)		CKSSYB103K16
C 1105	(A,59,97)		CSZSR101M6R3
C 1106	(A,56,100)		CKSSYB104K10
C 1107	(A,49,98)		CKSSYB103K16
C 1108	(A,52,103)		CKSRYB104K25
C 1109	(A,56,104)		CKSSYB473K10
C 1110	(A,47,104)		CKSSYB473K10
C 1111	(A,41,88)		CKSSYB103K16
C 1112	(A,41,104)		CKSRYB105K10
C 1113	(A,40,104)		CKSRYB105K10
C 1114	(A,40,99)		CKSSYB103K16
C 1115	(A,35,83)		CSZSR220M16
C 1201	(A,33,79)	10 μF	CCG1138
C 1202	(A,29,78)		CKSRYB104K25
C 1203	(A,21,64)		CSZSR220M16
C 1204	(A,29,68)		CKSRYB104K25
C 1205	(A,16,67)		CKSRYB104K25
C 1206	(A,17,67)		CKSRYB104K25
C 1207	(A,24,64)		CSZSR220M16
C 1208	(A,17,80)		CKSRYB104K25
C 1240	(A,46,81)		CCSSCH470J50
C 1241	(A,45,81)		CCSSCH5R0C50
C 1243	(A,38,73)	10 μF	CCG1138
C 1244	(A,54,68)		CKSSYB472K25
C 1245	(A,47,68)		CKSSYB103K16
C 1501	(A,115,69)		CSZSR470M10
C 1502	(A,118,61)		CSZSR101M6R3
C 1503	(A,114,61)		CSZSR101M6R3
C 1504	(A,74,63)		CKSSYB104K10
C 1505	(A,76,63)		CKSSYB104K10
C 1506	(A,79,62)		CKSSYB104K10
C 1507	(A,79,63)		CKSSYB104K10
C 1508	(A,82,63)		CKSSYB104K10
C 1509	(A,85,63)		CKSSYB104K10
C 1510	(A,90,63)		CKSSYB104K10
C 1511	(A,96,63)		CKSSYB104K10
C 1512	(A,102,68)		CKSSYB104K10
C 1513	(A,103,73)		CKSSYB104K10
C 1514	(A,103,78)		CKSSYB104K10
C 1515	(A,103,80)		CKSSYB104K10
C 1516	(A,82,96)		CKSSYB104K10
C 1517	(A,78,96)		CKSSYB104K10
C 1518	(A,76,96)		CKSSYB104K10
C 1519	(A,76,97)		CKSSYB104K10
C 1520	(A,70,91)		CKSSYB104K10
C 1521	(A,70,89)		CKSSYB104K10
C 1522	(A,70,86)		CKSSYB104K10
C 1523	(A,70,85)		CKSSYB104K10
C 1524	(A,70,83)		CKSSYB104K10
C 1525	(A,70,81)		CKSSYB104K10
C 1526	(A,70,78)		CKSSYB104K10
C 1527	(A,70,75)		CKSSYB104K10
C 1528	(A,70,73)		CKSSYB104K10
C 1529	(A,70,71)		CKSSYB104K10
C 1530	(A,70,69)		CKSSYB104K10
C 1531	(A,98,63)		CKSSYB471K50
C 1532	(A,105,67)		CKSSYB103K16
C 1533	(A,105,65)		CKSSYB103K16
C 1552	(A,83,96)		CKSSYB104K10
C 1553	(A,90,102)		CKSRYB104K25
C 1554	(A,87,96)		CKSSYB104K10
C 1555	(A,87,98)		CKSRYB105K10
C 1556	(A,100,101)		CSZSR470M10
C 1557	(A,89,96)		CKSSYB104K10
C 1558	(A,111,98)		CSZS4R7M16
C 1559	(A,84,100)		CKSRYB105K10
C 1570	(B,67,73)		CSZSR470M10
C 1571	(B,76,77)		CKSRYB474K10
C 1572	(B,76,85)		CKSRYB474K10
C 1573	(B,61,80)		CKSRYB474K10
C 1574	(B,61,83)		CKSRYB474K10
C 1575	(B,61,91)		CKSRYB474K10
C 1576	(B,61,94)		CKSRYB474K10
C 1577	(B,61,97)		CKSRYB474K10
C 1578	(B,76,98)		CKSRYB474K10
C 1579	(B,76,79)		CKSRYB474K10
C 1580	(B,76,82)		CKSRYB474K10
C 1581	(B,76,92)		CKSRYB474K10
C 1582	(B,76,95)		CKSRYB474K10
C 1583	(B,71,73)		CSZSR470M10
C 1601	(B,110,65)		CSZSR470M10
C 1603	(B,96,51)		CKSSYB104K10
C 1651	(B,121,33)		CSZSR470M10
C 1653	(B,108,20)		CKSSYB104K10
C 1654	(B,98,34)		CKSRYB104K25
C 1655	(B,108,34)		CKSSYB104K10

Circuit Symbol and No.		Part No.
C 1671	(B,106,48)	CKSSYB104K10
C 1672	(B,110,48)	CKSSYB104K10
C 1673	(B,110,37)	CKSSYB104K10
C 1674	(B,106,37)	CKSSYB104K10
C 1675	(B,98,42)	CKSRYB104K25
C 1676	(B,118,39)	CKSYB106K6R3
C 1701	(A,106,67)	CKSRYB104K25
C 1702	(A,105,69)	CKSRYB104K25
C 1703	(A,90,96)	CKSSYB104K10
C 1704	(A,91,96)	CKSSYB103K16
C 1706	(A,92,96)	CKSSYB104K10
C 1707	(A,96,100)	CKSSYB104K10
C 1708	(A,95,100)	CKSSYB103K16
C 1709	(A,92,98)	CCSRCH221J50
C 1710	(A,97,98)	CKSSYB152K50
C 1711	(A,94,97)	CKSRYB105K10
C 1712	(A,96,97)	CKSRYB105K10
C 1713	(A,97,97)	CKSRYB105K10
C 1715	(A,104,89)	CKSSYB104K10
C 1716	(A,103,88)	CKSSYB104K10
C 1717	(A,104,88)	CKSSYB104K10
C 1718	(A,103,87)	CKSSYB104K10
C 1719	(A,104,87)	CKSSYB562K25
C 1720	(A,103,86)	CCSSCH101J50
C 1721	(A,104,86)	CCSSCH470J50
C 1722	(A,103,85)	CKSSYB103K16
C 1723	(A,104,85)	CKSSYB104K10
C 1724	(A,103,84)	CKSSYB104K10
C 1725	(A,104,84)	CKSSYB104K10
C 1726	(A,103,83)	CCSSCH330J50
C 1727	(A,104,83)	CKSSYB333K16
C 1728	(A,103,82)	CKSSYB104K10
C 1801	(B,31,96)	CKSSYB104K10
C 1802	(B,33,96)	CKSSYB104K10
C 1804	(B,34,87)	CKSSYB104K10
C 1809	(B,32,101)	CCSSCJ3R0C50
C 1810	(B,36,101)	CCSSCK2R0C50
C 1811	(B,35,81)	CKSSYB104K10
C 1851	(B,21,87)	CKSSYB104K10
C 1852	(B,12,85)	CKSSYB104K10
C 1853	(B,10,85)	CKSYB106K6R3
C 1854	(B,23,84)	CKSYB106K6R3
C 1855	(B,21,84)	CKSRYB104K25
C 1856	(B,17,82)	CKSQYB225K10
C 1857	(B,10,80)	CCSRCH471J50
C 1858	(B,10,74)	CCSRCH471J50
C 1859	(B,10,81)	CCSRCH471J50
C 1860	(B,10,76)	CCSRCH471J50
C 1861	(B,17,77)	CKSQYB225K10
C 1862	(B,19,69)	CKSSYB471K50
C 1863	(B,11,71)	CKSSYB471K50
C 1864	(B,17,69)	CKSYB475K10
C 1865	(B,14,69)	CKSYB475K10
C 1870	(B,23,92)	CKSSYB102K50
C 1881	(B,19,46)	CKSSYB104K10
C 1901	(A,19,46)	CKSRYB474K10
C 1902	(A,29,54) 22 μF/6.3 V	CCH1300
C 1903	(A,28,48)	CSZSC101M10
C 1910	(B,10,15)	CKSRYB102K50
C 2001	(A,120,30)	CKSYB106K6R3
C 2002	(A,114,48)	CKSRYB105K10
C 2003	(A,112,49)	CKSSYB103K16
C 2004	(A,110,48)	CKSSYB103K16
C 2005	(A,109,54)	CKSQYB475K10
C 2006	(A,103,54)	CKSSYB103K16
C 2007	(A,96,41)	CKSSYB104K10
C 2008	(A,111,29)	CKSSYB104K10
C 2009	(A,120,43)	CKSSYB473K10
C 2010	(A,118,43)	CKSSYB103K16
C 2011	(A,123,47)	CKSRYB105K10
C 2015	(A,120,44)	CKSSYB473K10
C 2016	(A,118,44)	CKSSYB103K16
C 2017	(A,103,55)	CKSSYB103K16
C 2018	(A,98,20)	CKSRYB104K25
C 2020	(A,105,50)	CKSSYB471K50
C 2021	(A,119,48)	CKSRYB104K25
C 2022	(B,122,30)	CKSRYB104K16

F

Unit Number : CWX2986
Unit Name : PCB Assy

MISCELLANEOUS

VR11	(A,8,10)	Semi-fixed 1 kohm(B)	CCP1442
VR12	(A,9,23)	Semi-fixed 1 kohm(B)	CCP1442
R 11	(A,8,15)		RS1/16S562J
R 12	(A,10,15)		RS1/16S472J
R 13	(A,8,18)		RS1/16S562J
R 14	(A,9,6)		RS1/16S562J

Miscellaneous Parts List

	Stage Assy(Service)	CXX2261
M 1	Cam Motor Assy(CAM)	CXC5908
M 2	Motor Unit(E/L Motor)	CXC5910
VR2	Variable Resistor 10 kohm	CCW1023
VR13	Variable Resistor 10 kohm(B)	CCW1029

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

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